

Octet[®] BLI Biosensor Selection Guide

Simplifying Progress

SVISCIS

Octet® BLI Biosensors: Overview

Biosensor	Description	Intended Use¹	Application	Specificity	Protein Tag (capture)	Regenerable	Suggested Molecule
<u>AHC</u>	Anti-Human Fc-Capture	K	Human IgG or Fc-fusion capture	Human 🖁	lgG / Fc Domain	K	Y Ø
AHC2	Anti-Human Fc-Capture 2nd Generation	K Q	Human IgG or Fc-fusion capture	Human 🔓	IgG / Fc Domain	K Q	Y B
AHQ	Anti-Human IgG Fc	Q	Human IgG or Fc-fusion capture	Human 🔓	lgG / Fc Domain	Q	Y Ø
<u>AMC</u>	Anti-Mouse Fc-Capture	K	Mouse IgG or Fc-fusion capture	Mouse 🦳	lgG / Fc Domain	K	Y Ø
AMC2	Anti-Murine IgG Capture 2nd Generation	K Q	Mouse IgG or F(ab')2 capture	Mouse 🗠	lgG / F(ab')2	K Q	Y (Z
AMQ	Anti-Murine IgG Fv	Q	Mouse IgG or F(ab')2 capture	Mouse 📿	lgG / F(ab')2	Q	Y B
<u>APS</u>	Aminopropylsilane	K	Lipids, liposome and hydrophobic proteins capture	Various	N/A	◀	&&
ARC	Anti-Rabbit Fc-Capture	K Q	Rabbit IgG or Fc-fusion capture	Rabbit	lgG / Fc Domain	K Q	Y B
AR2G	Amine Reactive 2G	K	Amine coupling	Various	N/A	◀	Y B
FAB2G	Anti-Human Fab-CH1 2nd Generation	K Q	Human IgG or Fab-CH1 capture	Human 🔓	CH1	K Q	Y B
<u>GST</u>	Anti-GST	K Q	GST capture	Various	GST	(K) (Q)	Y B
<u>HIS1K</u>	Anti-Penta-HIS	K Q	His-tagged proteins capture	Various	His tag	K	Y B
HIS2	Anti-HIS	Q	His-tagged proteins capture	Various	His tag	◀	Y Ø
<u>NTA</u>	Ni-NTA	K Q	His-tagged proteins capture	Various	His tag	(K) (Q)	Y B
<u>ProA</u>	Protein A	Q	Various species IgG capture	Various	lgG	Q	Y Ø
<u>ProG</u>	Protein G	Q	Various species IgG capture	Various	lgG	Q	Y B
<u>ProL</u>	Protein L	Q	Various species IgG capture	Various	lgG	Q	Y B
<u>SA</u>	Streptavidin	K Q	Immobilization of biotinylated molecules	Various	Biotin, AviTag™	◀	Y B
<u>SAX</u>	High Precision Streptavidin	K Q	Immobilization of biotinylated molecules	Various	Biotin, AviTag™	◀	Y B
SAX2	High Precision Streptavidin 2.0	K Q	Immobilization of biotinylated molecules	Various	Biotin, AviTag™	◀	Y B
<u>SSA</u>	Super Streptavidin	K	Immobilization of biotinylated molecules	Various	Biotin, AviTag™	K	с р
AAVX	AAV Quantitation	Q	Quantitation of AAV Capsids	Human 🖁	N/A	Q	×
K Kinetic	es Q Quantitation G g	Glycan Screening	Impurity Testing K Yes for Kinetics	Yes for Quantitation	Q No for Quantitation	Protei deper	n and analyte ndent
Proteir	ns 🌱 Antibodies 🎖 S	Small Molecul	es 🗞 Lipid liposome 🗧 DNA				

¹ Biosensors are developed, manufactured, and QC is performed for their intended applications; using biosensors outside their intended purpose requires user validation

Octet[®] BLI Consumables: In Depth

		Octet® BLI System Quantitation Dynamic Range				namic Range ¹			
Octet [®] Consumables	Description Intended mables Use ²		ed	Application	Octet [®] QK°', QK384', RH96 ≥32 Channel	Octet® RED96e', K2', R2, R4, R8, RH16, RH96 8 or 16 Channel	Octet [®] N1	Rege	eneration
Biosensors									
AHC (Cat. Nos. 18-5060, 18-5063, 18-5064)	Anti-Human Fc-Capture	K		Capturing human IgG's or human Fc-fusion proteins for kinetic analysis with various analytes	N/A	N/A	N/A	K	
AHC2 (Cat. Nos. 18-5142, 18-5143, 18-5144)	Anti-Human Fc-Capture 2nd Generation	K	Q	Capturing human IgG's or human Fc-fusion proteins for both kinetic and quantitation analysis	0.5-2000 μg/mL	0.1-2000 µg/mL	0.5-4000 μg/mL	K	Q
AHQ (Cat. Nos. 18-5001, 18-5004, 18-5005)	Anti-Human IgG Fc	Q		Quantitation measurements of human IgG's or human Fc-fusion proteins	0.025-200 µg/mL	0.01-200 μg/mL	0.25-500 μg/mL	Q	
AMC (Cat. Nos. 18-5088, 18-5089, 18-5090)	Anti-Mouse Fc-Capture	K		Capturing mouse IgG's or mouse Fc-fusion proteins for kinetic analysis with various analytes	N/A	N/A	N/A	K	
<u>AMC2</u> (Cat. Nos. 18-5163, 18-5164, 18-5165)	Anti-Murine IgG Capture 2nd Generation	K	Q	Capture of murine IgG's or F(ab'2) for both kinetic and quantitation analysis	0.025-8000 μg/mL	0.025-8000 µg/mL	0.025-8000 µg/mL	K	Q
AMQ (Cat. Nos. 18-5022, 18-5023, 18-5024)	Anti-Murine IgG Fv	Q		Quantitation measurements of mouse IgG's or mouse F (ab')2	0.05-200 μg/mL	0.025-200 μg/mL	0.5-500 μg/mL	Q	
APS (Cat. Nos. 18-5045, 18-5046, 18-5047)	Aminopropylsilane	K		Binding measurement of lipids, liposomes, hydrophobic proteins that don't have other methods of surface attachment	N/A	N/A	N/A	•	
ARC (Cat. Nos. 18-5168, 18-5169, 18-5170)	Anti-Rabbit Fc-Capture	K	Q	Capturing rabbit IgG's or rabbit Fc-fusion proteins for both kinetic and quantitation analysis	0.05-4000 μg/mL	0.05-4000 μg/mL	0.05-4000 μg/mL	K	Q
AR2G (Cat. Nos. 18-5092, 18-5093, 18-5094)	Amine Reactive 2G	K		Covalently immobilizing any molecule with a terminal amine group for all kinetic analyses	N/A	N/A	N/A		
FAB2G (Cat. Nos. 18-5125, 18-5126, 18-5127)	Anti-Human Fab-CH1 2nd Generation	K	Q	Kinetic analysis of human Fab fragments and IgG with target antigen, Fc receptors, or other analytes. Quantitation of Fab and IgG.	Analyte dependent, typically 0.5-1000 µg/mL	Analyte dependent, typically 0.5-1000 µg/mL	Analyte dependent, typically 0.5-1000 µg/mL	K	Q
<u>GST</u> (Cat. Nos. 18-5096, 18-5097, 18-5098)	Anti-GST	K	Q	Quantitation of GST-tagged proteins, direct capturing of GST-tagged proteins for kinetic analyses with analytes	Protein dependent, typically 0.1-2000 µg/mL	Protein dependent, typically 0.1-2000 µg/mL	Protein dependent, typically 0.5-1000 µg/mL**	K	Q
HIS1K (Cat. Nos. 18-5120, 18-5121, 18-5122)	Anti-Penta-HIS	K	Q	Capture of His-tagged proteins for kinetic analysis with target analytes. Quantitation of His-tagged proteins in buffer, media or diluted lysate. Biosensor is pre-coated with Penta-His antibody from Qiagen.	Protein dependent, typically 0.25–200 μg/mL*	Protein dependent, typically 0.25-200 μg/mL*	Protein dependent, typically 10–200 µg/mL*	K	
HIS2 (Cat. Nos. 18-5114, 18-5115, 18-5116)	Anti-HIS	Q		Quantitation of HIS-tagged proteins in crude matrices or buffer or column eluent (pre-coated with anti-His Ab from MBS)	Protein and protocol (time and rpm) dependent, 0.1-200 µg/mL**	Protein and protocol (time and rpm) dependent, 0.1-200 µg/mL**	Protein dependent, typically 0.1–200 µg/mL**	•	

Octet® BLI Consumables: In Depth (con't)

					Octet [®] BLI System Quantitation Dynamic Range ¹				
Octet [®] Consumables	Description	iption Intended Use ²		Application	Octet [®] QK ^e ', QK384', RH96 ≥32 Channel	Octet [®] RED96e ⁺ , K2 ⁺ , R2, R4, R8, RH16, RH96 8 or 16 Channel	Octet [®] N1	Rege	eneration
Biosensors									
NTA (Cat. Nos. 18-5101, 18-5102, 18-5103)	Ni-NTA	K	Q	Quantitation of HIS-tagged proteins in buffer or diluted matrix, capturing of HIS-tagged proteins for kinetic analyses with various analytes	Protein dependent, typically 0.5-1000 μg/mL	Protein dependent, typically 0.5-1000 μg/mL	Protein dependent, typically 0.5-1000 μg/mL	K	Q
ProA (Cat. Nos. 18-5010, 18-5012, 18-5013)	Protein A	Q		Quantitation of IgG's of various species including human	0.1-700 µg/mL	0.025-2000 µg/mL	0.5-4000 µg/mL	Q	
<u>ProG</u> (Cat. Nos. 18-5082, 18-5083, 18-5084)	Protein G	Q		Quantitation of IgG's of various species including human	0.1-700 µg/mL	0.025-2000 µg/mL	0.5-4000 µg/mL	Q	
<u>ProL</u> (Cat. Nos. 18-5085, 18-5086, 18-5087)	Protein L	Q		Quantitation of IgG's of various species via the kappa light chain	0.1-700 µg/mL	0.05-2000 µg/mL	0.5-2000 µg/mL	Q	
<u>SA</u> (Cat. Nos. 18-5019, 18-5020, 18-5021)	Streptavidin	K		Immobilizing biotinylated molecules for all kinetic analyses	N/A	N/A	N/A	•	
<u>SAX</u> (Cat. Nos. 18-5117, 18-5118, 18-5119)	High Precision Streptavidin	K	Q	Immobilizing biotinylated molecules for high precision quantitation and kinetic measurements	Protein dependent	Protein dependent	Protein dependent	•	
<u>SAX2</u> (Cat. Nos. 18-5136, 18-5137, 18-5138)	High Precision Streptavidin 2.0	K	Q	Immobilizing biotinylated molecules for high precision and reproducible kinetic characterization and custom quantitation	Protein dependent	Protein dependent	Protein dependent	•	
<u>SSA</u> (Cat. Nos. 18-5057, 18-5065, 18-5070)	Super Streptavidin	K		Small molecule and fragment analyses only, should not be used for large molecule measurements	N/A	N/A	N/A	K	
AAVX (Cat. Nos. 18-5160, 18-5161, 18-5162)	AAV Quantitation	Q		Quantitation of AAV Capsids for various AAV serotypes, including AAV1 -AAV9 and AAVrh10	AAV serotype and sample dependent, typically 8.5E8-1.0E13 vp/mL	AAV serotype and sample dependent, typically 8.5E8-1.0E13 vp/mL	AAV serotype and sample dependent, typically 8.5E8-1.0E13 vp/mL	Q	
K Kinetics	Q Quantitation	on	G GI	ycan () Impurity Testing (K) Yes	s for Kinetics Q Yes	s for Qua	for Pro antitation dep	tein and endent	analyte

¹ Dynamic range might vary for different background conditions, numbers listed are guidelines only and are based on testing of intended analyte molecules, users should validate range for their own samples

² Biosensors are developed, manufactured, and QC is performed for their intended applications; using biosensors outside their intended purpose requires user validation

* Assay conditions and dynamic range should be validated

** Users should validate their assay

* Discontinued model

Octet® BLI Consumables: In Depth (con't)

Octet* ConsumablesDescriptionIntended UseApplicationOctet* QK*, QK384', RH96 s2 ChannelOctet* RED96e', K2, R2, R4, R8, RH16, RH96 s or 16 ChannelOctet* N1RegKits and ReagentsKits and ReagentsKits and ReagentsN/AN/AN/AImage: ConsumablesMaine Coupling 2nd Generation Reagent KitReagent kit for immobilizing any molecule with a terminal amine group onto Octet* AR2G biosensorsN/AN/AN/AImage: ConsumablesImage: ConsumablesN/AImage: ConsumablesImage: ConsumablesConsumablesImage: ConsumablesImage: ConsumablesResResKits and ReagentsAmine Coupling 2nd Generation Reagent KitReagent kit for immobilizing any molecule with a terminal amine group onto Octet* AR2G biosensorsN/AN/AImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesN/AImage: ConsumablesImage: Co						
Kits and ReagentsAR2C (Cat. No. 18-5095)Amine Coupling 2nd Generation Reagent KitReagent kit for immobilizing any molecule with a terminal amine group onto Octet® AR2G biosensorsN/AN/AN/AImage: Colspan="5">N/AGIVM (Cat. No. 18-5139)Mannose Screening KitImage: Colspan="5">Generation reagent KitReagent kit for immobilizing any molecule with a terminal amine group onto Octet® AR2G biosensorsN/AN/AImage: Colspan="5">N/AGIVM (Cat. No. 18-5139)Mannose Screening G KitRelative screening of Mannose glycans in crude or purified cell culture samplesSample dependentN/AImage: Colspan="5">OmegaGIVS (Cat. No. 18-5135)Sialic Acid Screening KitGRelative screening of sialic acid in crude or purified cell culture samplesSample dependentN/AImage: Colspan="5">OmegaHCP (Cat. No. 18-5141, 18-5158)Anti-CHO HCP Detection KitImage: Cho HCPHigh sensitivity assay kit for generic analyses of CHO HCPSample dependent, typically 0.5-200 ng/mLN/AImage: Colspan="5">OmegaRPA (Cat. No. 18-5128)Residual Protein A Detection KitImage: Colspan="5">Omega High sensitivity assay kit for analyses of residual Protein ASample dependent, typically 0.5-200 ng/mLN/AImage: Colspan="5">Omega Sample dependent, typically 0.5-200 ng/mL	egeneration					
AR2G (Cat. No. 18-5095)Amine Coupling 2nd Generation Reagent KitReagent kit for immobilizing any molecule with a terminal amine group onto Octet® AR2G biosensorsN/AN/AN/AN/AGlyM (Cat. No. 18-5139)Mannose Screening KitImage: Computified cell culture samplesSample dependent or purified cell culture samplesSample dependent Sample dependentN/AImage: Computified cell culture samplesGlyS (Cat. No. 18-5135)Sialic Acid Screening KitImage: Computified cell culture samplesSample dependent screening KitN/AImage: Computified cell culture samplesHCP (Cat. No. 18-5141, 18-5158)Anti-CHO HCP Detection KitImage: Cho HCP Detection KitImage: Cho HCP Detection KitImage: Cho HCP Portein ASample dependent, typically 0.5-200 ng/mLN/AImage: Computer Sample dependent, typically 0.5-200 ng/mLN/ARPA (Cat. No. 18-5128)Residual Protein A Detection KitImage: Computer Protein AImage: Computer Protein ASample dependent, typically 0.5-200 ng/mLN/AImage: Computer Sample dependent, typically typically 0.5-200 ng/mLN/AImage: Computer Sample dependent, typically typicallyImage: Computer Sample dependent, typically typicallyN/AImage: Comp						
ClyM (Cat. No. 18-5139)Mannose Screening KitCRelative screening of Mannose glycans in crude or purified cell culture samplesSample dependentSample dependentN/AQClyS (Cat. No. 18-5135)Sialic Acid Screening KitCRelative screening of sialic acid in crude or purified cell culture samplesSample dependentSample dependentN/AQHCP (Cat. No. 18-5135)Anti-CHO HCP Detection KitIHigh sensitivity assay kit for generic analyses of CHO HCPSample dependent, typically 0.5-200 ng/mLSample dependent, typically 0.5-200 ng/mLN/AQRPA (Cat. No. 18-5128)Residual Protein A Detection KitIHigh sensitivity assay kit for analyses of residual Protein ASample dependent, typically 0.5-200 ng/mLSample dependent, typically 0.5-200 ng/mLN/AQ						
GLVS (Cat. No. 18-5135) Sialic Acid Screening Kit Selative screening of sialic acid in crude or purified cell culture samples Sample dependent N/A O HCP (Cat. Nos. 18-5141, 18-5158) Anti-CHO HCP Detection Kit Image: Cat. Nos. 18-5141, 18-5158) Anti-CHO HCP Detection Kit Image: Cat. Nos. 18-5141, 18-5158) Sample dependent, typically 0.5-200 ng/mL Sample dependent, typically 0.5-200 ng/mL N/A O RPA (Cat. No. 18-5128) Residual Protein A Detection Kit Image: Cat. Nos. 18-5128) Sample dependent, typically Sample dependent, typically Sample dependent, typically N/A O)					
HCP (Cat. Nos. 18-5141, 18-5158) Anti-CHO HCP Detection Kit Image: Mail Sensitivity assay kit for generic analyses of CHO HCP Sample dependent, typically 0.5-200 ng/mL Sample dependent, typically 0.5-200 ng/mL N/A Q RPA (Cat. No. 18-5128) Residual Protein A Detection Kit Image: Mail Sensitivity assay kit for analyses of residual Protein A Sample dependent, typically Sample dependent, typically N/A Q)					
RPA (Cat. No. 18-5128) Residual Protein A Detection Kit Image: Cat. No. 18-5128) High sensitivity assay kit for analyses of residual Protein A Sample dependent, typically Sample dependent, typically N/A Image: Cat. No. 18-5128))					
0.1-25 ng/mL 0.1-25 ng/mL)					
Regeneration Regeneration Buffer Image: Constraint of the second se						
Kinetics Buffer Optimized buffer N/A Sartorius' Octet® Kinetics Buffer 10X (10x KB) N/A N/A N/A N/A N/A 10X (Cat. No. 18-1105) matrix to be used in kinetics assays is essential for kinetics applications performed on the Octet® platform with Octet® biosensors. n/A n/A N/A N/A	Ϋ́Α					
ProA Calibrator Calibration of the Octet® ProA N/A Octet® ProA Calibrator Set is intended for the calibration of the Octet® ProA Biosensors and Biosensors N/A N/A N/A N/A N/A (Cat. No. 18-1118) Biosensors generation of a standard curve for IgG titer measurement. The set includes 8 calibrators with IgG concentrations ranging from 1 - 700 µg/mL. N/A N/A N/A N/A N/A N/A	Ά					
Octet® Sample Octet® sample dilution N/A Octet® sample dilution N/A N/A N/A N/A Diluent (Cat. No. 18-1104) buffer for quantitation assays octet® sample dilution buffer for quantitation assays, 50mL. Contains Kathon. N/A N/A N/A N/A N/A	Ϋ́Α					
Accessories						
Octet [®] AT (Cat. No. 18-5159) Biosensor Transfer Tool N/A The Octet [®] AT is a tool for Octet [®] BLI biosensor transfer. Its ergonomic design delivers exceptional comfort and makes biosensor pickup and require and easy.	The Octet®AT is a tool for Octet® BLI biosensor transfer. Its ergonomic design delivers exceptional comfort and makes biosensor pickup and release quick and easy.					
Octet [®] AS (Cat. No. OCTET-AS) Offline Biosensor N/A Simultaneous and Uniform reagent loading capable of simultaneously and uniformly loading reagents onto all 96 biosensors in a biosensor tra-	tray					
Octet [®] AC (Cat. No. 18-5133) Biosensor mount of Ceaning tray Cotet [®] AC is a biosensor mount cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleaning tray for regular automated cleaning of metal biosensor mounts on Octet [®] RH96 and RH16 instrument cleaning tray for regular automated cleani	nents.					













Q Yes for



Protein and analyte dependent

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