

Biosensors for Flexible Assay Design

Dip and Read biosensors are coated with a uniform, non-denaturing biocompatible matrix that provides minimal non-specific binding, even in crude, unfiltered samples. Our broad range of surface chemistries lets you design experiments with maximum flexibility.

Biosensor	Description	Intended Application ¹	Best Used For	Quantitation Dynamic Range ²		
				QK ² /QK384	K2/RED96/RED384	Octet HTX
APS	Amino-Propyl-Silane	K	Binding measurement of lipids, liposomes, hydrophobic proteins that don't have other methods of surface attachment	N/A	N/A	N/A
AR2G	Amine Reactive 2G	K	Covalently immobilizing any molecule with a terminal amine group for all kinetic analyses	N/A	N/A	N/A
SSA	Super Streptavidin	K	Small molecule and fragment analysis	N/A	N/A	N/A
AHC	Anti-Human Fc-Capture	K	Capturing human IgG's or human Fc-fusion proteins for kinetic analysis	N/A	N/A	N/A
AMC	Anti-Mouse Fc-Capture	K	Capturing mouse IgG's or mouse Fc-fusion proteins for kinetic analysis	N/A	N/A	N/A
SA	Streptavidin	K	Immobilizing biotinylated molecules for all kinetic analyses	N/A	N/A	N/A
SAX	High Precision Streptavidin	Q and K	Immobilizing biotinylated molecules for quantitation and kinetics analyses			
AHQ	Anti-Human IgG Fc	Q	Quantitation measurements of human IgG's or human Fc-fusion proteins	0.5–100 µg/mL	0.025–200 µg/mL	0.025–200 µg/mL
AMQ	Anti-Murine IgG Fv	Q	Quantitation measurements of mouse IgG's or mouse F(ab') ₂	0.5–100 µg/mL	0.1–200 µg/mL	0.1–200 µg/mL
HIS1K	Anti-Penta HIS	Q and K	Quantitation of HIS-tagged proteins, direct capturing of HIS-tagged proteins for kinetic analysis	Protein and protocol dependent, 0.1–500 µg/mL	Protein and protocol dependent, 0.1–500 µg/mL	Protein and protocol dependent, 0.1–500 µg/mL
HIS2	Anti-Penta-HIS 2G	Q	Quantitation of HIS-tagged proteins in crude matrices or buffer or column eluent	Protein and protocol dependent, 0.1–200 µg/mL	Protein and protocol dependent, 0.1–200 µg/mL	Protein and protocol dependent, 0.1–200 µg/mL
ProA	Protein A	Q	Quantitation of IgG's of various species including human	0.1–700 µg/mL	0.025–2000 µg/mL	0.025–2000 µg/mL
ProG	Protein G	Q	Quantitation of IgG's of various species including human	0.1–700 µg/mL	0.025–2000 µg/mL	0.025–2000 µg/mL
ProL	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	0.05–2000 µg/mL
FAB	Anti-Human Fab-CH1	Q and K	Quantitation of human IgG and Fab and F(ab') ₂ , capturing of human IgG and Fab and F(ab') ₂ for kinetic analyses	Analyte dependent, typically 0.5–1000 µg/mL	Analyte dependent, typically 0.5–1000 µg/mL	Analyte dependent, typically 0.5–1000 µg/mL
GST	Anti-GST	Q and K	Quantitation of GST-tagged proteins, direct capturing of GST-tagged proteins for kinetic analyses	Protein dependent, typically 0.1–2000 µg/mL	Protein dependent, typically 0.1–2000 µg/mL	Protein dependent, typically 0.1–2000 µg/mL
NTA	Ni-NTA	Q and K	Quantitation of HIS-tagged proteins in buffer or diluted matrix, capturing of HIS-tagged proteins for kinetic analyses	Protein dependent, typically 0.5–1000 µg/mL	Protein dependent, typically 0.5–1000 µg/mL	Protein dependent, typically 0.5–1000 µg/mL

1 Biosensors are developed, manufactured and tested specifically for kinetic assays (K), quantitation assays (Q), or both. Use of biosensors outside their intended purpose requires user validation.

2 Dynamic range may vary. Listed values are provided as guidelines only and are based on testing of specified analyte molecules. Users should validate the dynamic range for their specific analyte/sample.

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 **ALFATEST**
strumentazione scientifica
www.alfatest.it - alfatest@alfatest.it

DIP AND READ ASSAY KITS

Assay	Item	Comments
Immunogenicity	Kit	Bridging and direct assay formats to detect high- and low-affinity anti-drug antibodies
Residual Protein A Detection	Kit	Protein A and biosimilars such as MabSelect SuRe
Anti-CHO HCP Detection Kit	Kit	Rapid, high throughput detection of CHO host cell proteins