

Selection Guide: Gator Probes for His-tagged Protein Capture

Gator® Bio offers three His-tag capture chemistries, each optimized for different experimental requirements. Selection depends on sample matrix complexity, assay needs, buffer compatibility, and analyte characteristics.

Table 1: Recommended His-capture probes for common sample and assay needs.

Sample/Assay Characteristics	Anti-His (PN: 160009)	Ni-NTA (PN: 160016)	Anti-His (HIS) XT (PN: 160050)
Crude samples or complex matrices	✓		✓
Buffers with reducing agents or chelators	✓		✓
Picomolar affinity measurements			✓
Small analytes (< 15 kDa) or weak interactions			✓
Analysis of Fc receptor binding		✓	✓
Sample-limited applications			✓
Standardized, high-throughput workflows in clean buffers		✓	✓

Table 2: Feature comparison between Gator Bio Anti-His, Ni-NTA, and Anti-His (HIS) XT probes.

Feature	Anti-His (PN: 160009)	Ni-NTA (PN: 160016)	Anti-His (HIS) XT (PN: 160050)
Capture Surface	Monoclonal Antibody	Ni-NTA Coordination	AI-Designed NovoBody™
Applications	Q / K / EP	Q / K / EP	Q / K / EP
Quantitation Dynamic Range	0.25 – 500 µg/ml	0.1 – 1000 µg/ml	0.2 – 1000 µg/ml
Sample Requirements	High	Moderate	Low
Compatible Sample Matrix	Purified proteins E coli lysate CHO Lysate Expi293 Lysate	Purified proteins	Purified proteins E coli lysate CHO lysate Expi293 lysate
Regeneration / Reuse	5 – 10 regenerations	10+ regenerations	10+ regenerations
Key Strengths	Specific His-tag recognition; compatible with many buffers	Simple, widely used capture chemistry; broad dynamic range	Higher signal response per binding event; excellent ligand affinity; low ligand use; optimized to reduce avidity

Questions?

If you're looking for application guidance, technical specifications, or sample data, we'll make sure you get the details you need to move forward with confidence. Contact us at info@gatorbio.com.

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