

Product Datasheet

Histidine Antibody / His Tag (orb2644590)

Catalog Number	orb2644590
Category	Antibodies
Description	<p>It recognizes both the free and protein-conjugated (either soluble or cell bound) form of hexa-histidine. This MAb is highly specific to hexa-histidine and shows no cross-reaction with other structurally related compounds. It has a very high affinity for hexa-histidine and is excellent for use in various techniques. His-Tag Antibody detects recombinant proteins containing the 6xHis epitope tag. The antibody recognizes the 6xHis-tag fused to either the amino or carboxy terminus of targeted proteins in transfected cells. Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged proteins biochemical properties. A variety of plasmids contain DNA that encodes an amino-terminal tag consisting of six histidine (6xHis) residues followed by an extended multiple cloning site. The 6xHis tag on the expressed recombinant proteins allows for efficient coupling to Ni²⁺ affinity resins and purification by single step chromatography. As is the case with other protein tag systems, this polyhistidine tag can often be cleaved at sites recognized by proteases such as thrombin and enterokinases to isolate the protein of interest.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	All
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity chromatography

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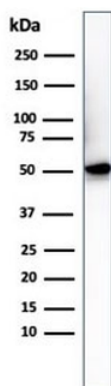
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Immunogen	Hexa-histidine tagged human recombinant protein was used as the immunogen for the Histidine antibody.
Tested applications	FACS, IF, IP, WB
Dilution range	Western blot: 1-2ug/ml, Flow cytometry: 0.5-1ug/million cells, Immunofluorescence: 0.5-1ug/ml, Immunoprecipitation: 2-4ug/500ug protein
Application notes	Optimal dilution of the Histidine antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	6HIS/3550
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Western blot testing of His-tagged protein with Histidine antibody.

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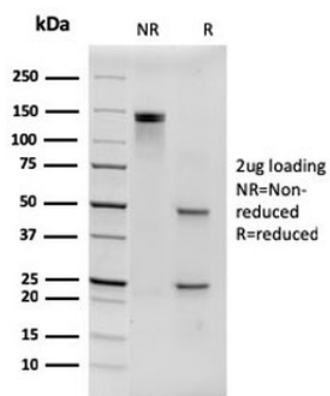
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SDS-PAGE analysis of purified, BSA-free Histidine antibody (clone 6HIS/3550) as confirmation of integrity and purity.

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