His Tag Antibody

Monoclonal Mouse IgG_1 Clone # AD1.1.10

Catalog Number: MAB050

DESCRIPTION

Specificity	Detects proteins containing accessible consecutive histidine regions. The antibody detects His tags localized at the amino- or carboxyl-terminus.
Source	Monoclonal Mouse IgG_1 Clone # AD1.1.10
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	His-tagged peptide
Endotoxin Level	<0.20 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

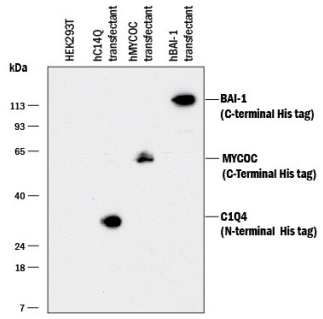
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.2 µg/mL	See Below
Flow Cytometry	0.25 µg/10^6 cells	See Below
Simple Western	10 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Immunoaffinity Purification	Immobilized anti-His antibody can be used to affinity purify proteins containing exposed His tags. The column capacity must be determined for each individual His-tagged protein.	

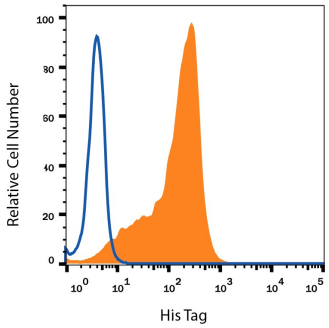
DATA

Western Blot



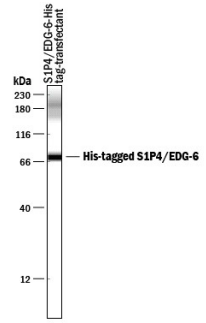
Detection of His Tag by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line either non-transfected or transfected with His-tagged human ClQ4 and human MYCOC and CHO Chinese hamster ovary cell line transfected with His-tagged human BAI-1. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-His Tag Monoclonal Antibody (Catalog # MAB050) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). Specific bands were detected for His Tag at approximately 32, 65, and 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of His Tag in HEK293 Human Cell Line Transfected with His-tagged Proteins by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with His-tagged proteins was stained with Mouse Anti-His Tag Monoclonal Antibody (Catalog # MAB050, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005).

Simple Western



Detection of His Tag by Simple Western™. Simple Western lane view shows lysates of CHO Chinese hamster ovary cell line transfected with His-tagged human S1P4/EDG-6, loaded at 0.5 mg/mL. A specific band was detected for His-tagged S1P4/EDG-6 at approximately 75 kDa (as indicated) using 10 µg/mL of Mouse Anti-His Tag Monoclonal Antibody (Catalog # MAB050). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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