abcam

ab117504

DyLight® 650 Anti-6X His tag® antibody [AD1.1.10]

Anti-6X His tag® antibody [AD1.1.10] conjugated to DyLight® 650 - suitable for flow cytometry, ICC/IF samples. Clone [AD1.1.10] is a mouse monoclonal antibody cited in 79 publications.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	DyLight® 650
Excitation/Emission	Ex: 654nm, Em: 673nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 1.639% Sodium phosphate, 1% BSA, 0.877% Sodium chloride
Form	Liquid
Clonality	Monoclonal
Clone number	AD1.1.10
Purification technique	Affinity purification Protein G
Specificity	ab117504 reacts to recombinant proteins containing the 6X His tag® fused to either the amino or carboxy terminus.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Expected

Species	Tag

Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Tag
Dilution info	1/500 - 1/5000
Notes	-

Target data

See full target information 6X His tag®

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark, The product can be stored for up to 12 months

Notes

What is this antibody validated in?
DyLight® 650 Anti-6X His tag® antibody [AD1.1.10] (ab117504) is a mouse monoclonal antibody and is validated for use in Flow Cytometry (Flow Cyt), Immunocytochemistry/immunofluorescence (ICC/IF). **Tagged protein detection** 6X His tag® antibodies are used to visualize proteins labelled with this tag in a variety of applications.

Related products
Antibody clone AD1.1.10 is also available pre-conjugated to a variety of labels for your convenience – Anti-6X His tag® DyLight® 650 [AD1.1.10] (ab117504).

Other related products
We have a range of other formats of antibody clone [AD1.1.10] also available for your convenience: ab15149, PE - ab72467, SureLight® APC - ab72579, Alkaline Phosphatase - ab81652, PerCP - ab117496, Carrier free - ab117504,

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The 6X His tag is a sequence commonly used for protein purification detection and immobilization. It consists of six histidine residues that bind to metal ions like nickel or cobalt. This makes it a highly efficient tag for affinity chromatography. His tag antibodies such as anti-His HRP facilitate the detection of His-tagged proteins in various assays. Being a small tag with a typical molecular weight of about 0.84 kDa it minimally interferes with protein function. Many proteins expressed in E. coli and other expression systems carry the 6X His tag for ease of purification and analysis.
Biological function summary	Proteins tagged with the 6X His tag often play roles in studies involving recombinant proteins. The tag itself does not alter the biological function of the target protein. It is not part of any natural protein complex but aids in the study of such complexes. Researchers use His tag antibodies like anti-His to specifically target and study these tagged proteins without cross-reactivity to other proteins.
Pathways	The incorporation of the 6X His tag into proteins allows them to be studied more efficiently in various biological pathways. It can be part of pathways like signal transduction or metabolic pathways. When tagged proteins interact with other molecules such as kinases or receptors researchers can track these interactions using the tag and anti-Histidine antibodies. This technique informs on proteins that are hard to purify due to low abundance or instability.
Associated diseases and disorders	The 6X His tag itself does not have direct implications. However proteins of interest in disease models often carry the tag which allows researchers to purify and study them in detail. For example cancer-related proteins may be expressed with a His tag to understand their role in tumorigenesis. Similarly proteins involved in metabolic disorders could be tagged which helps in analyzing specific interactions or functions disrupted in diseases.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

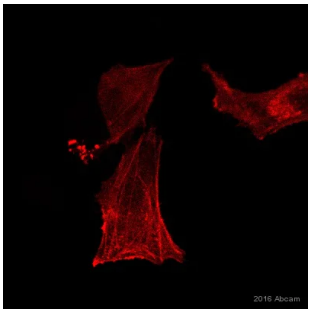
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

1 product image



This image is courtesy of an anonymous customer review.

Immunocytochemistry/ Immunofluorescence - DyLight® 650 Anti-6X His tag® antibody [AD1.1.10] (ab117504)

6X His tag® Immunocytochemistry/ Immunofluorescence staining using mouse Anti-6X His tag® antibody

Immunocytochemistry/ Immunofluorescence analysis of HeLa cells transfected with His-tagged actin labeling 6X His tag® with ab117504 at 1/1000 dilution. The cells were fixed with paraformaldehyde and permeabilized with 0.1% Triton-X100 in PBS. The cells were blocked with 5% BSA for 12 hours at 4°C, followed by incubation with Anti-6X His tag® antibody [AD1.1.10] (DyLight® 650) (ab117504) for 2 hours at 25°C.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.