abcam

ab1206

FITC Anti-6X His tag® antibody

Anti-6X His tag® antibody conjugated to FITC is a rabbit polyclonal antibody suitable for ELISA, flow cytometry.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Polyclonal
Purification technique	Affinity purification Immunogen
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Antibodies were immunoaffinity purified using the peptide conjugated to a solid-phase support and conjugated to fluorescein isothiocyanate.

Reactivity data

Flow Cyt

Tested

Species	Tag
Dilution info	-

Notes	ab37406 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

ELISA

Expected

Species	Tag
Dilution info	Use at an assay dependent concentration.
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

Notes

What is this antibody validated in?
FITC Anti-6X His tag® antibody (ab1206) is a rabbit polyclonal antibody and is validated for use in Flow Cytometry (Flow Cyt), ELISA. **Tagged protein detection**
6X His tag® antibodies are used to visualize proteins labelled with this tag in a variety of applications.

Trusted by the scientific community
Anti-6X His tag® FITC (ab1206) was first used in a scientific publication in 2002 and has been cited over 20 times in peer-reviewed journals.

Reviewed by scientists
Anti-6X His tag® FITC (ab1206) has over 5 independent reviews from customers.

HIS-TAG® is a trademark of EMD Biosciences, Inc.

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

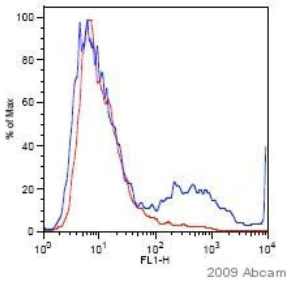
We do not recommend this combination. It is not covered by our product promise.

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.

2 product images

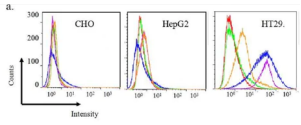


This image is courtesy of an anonymous customer review

Flow Cytometry - FITC Anti-6X His tag® antibody (ab1206)

6X His tag® Flow Cytometry staining using rabbit Anti-6X His tag® antibody

ab1206 staining 6X His tag® in human endometrial carcinoma cells by Flow Cytometry.
Cells were prepared by short trypsinisation in PBS/1% FBS/0.2% sodium azide and fixed with formaldehyde. The gate included all single cells. The sample was incubated with a 6X His tag® primary antibody for 1 hour at 4°C. ab1206 was used as the secondary. On the image, the red line represents cells stained with ab1206 alone, and the blue line is the tested sample carrying a 6XHis tag®. The small peak to the right represents cells that bound the tested sample.



Li et al PLoS One. 2018 Jan 22;13(1):e0191024. doi: 10.1371/journal.pone.0191024. eCollection 2018. Fig 2. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

Flow Cytometry - FITC Anti-6X His tag® antibody (ab1206)

Muc1-Bi-1 and Muc1-Bi-2 can recognize Muc1 positive tumor cells.
a). Flow cytometry analysis of Muc1-Bi-1 and Muc1-Bi-2 on Muc1-negative cell lines HePG2 and CHO and Muc1-positive cell lines, HT29. Red line indicates cells with no staining; green line indicates cells with only anti-His-FITC staining (ab1206); blue line indicates cells with positive control anti-Muc1 antibody; purple line indicates cells with Muc1-Bi-1 protein; orange line indicates cells with Muc1-Bi-2 protein.

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