

Product datasheet

Anti-Myc tag antibody [Hyper-myc] - Mouse IgG2a (Chimeric) ab289980

Recombinant

6 Images

Overview

Product name	Anti-Myc tag antibody [Hyper-myc] - Mouse IgG2a (Chimeric)
Description	Mouse monoclonal [Hyper-myc] to Myc tag - Chimeric
Host species	Mouse
Tested applications	Suitable for: ICC/IF, Indirect ELISA, WB, Flow Cyt (Intra), IP
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: range of myc-tagged proteins expressed in transfected HEK-293T cells. ICC/IF: HEK-293T cells transfected with CRISPR-Cas9 (S. Aureas) expression vector containing a myc tag. Flow Cyt (intra): 293T (human embryonic kidney) transfected with TMEM-119 expression vector containing a myc-His-tag®. IP: HEK-293T transfected with human NF2 S518A expression vector containing a myc-His-tag® whole cell lysate. Indirect ELISA: Human myc-tag antigen
General notes	<p>ab289980 is a mouse monoclonal chimeric antibody.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	Hyper-myc
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab289980 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/500.
Indirect ELISA		Use a concentration of 2 µg/ml.
WB		1/5000. Predicted molecular weight: 49 kDa.
Flow Cyt (Intra)		1/1000.
IP		1/30.

Target

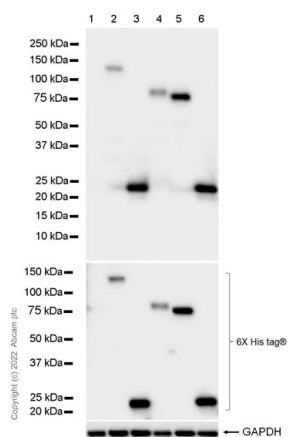
Relevance

Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Most often sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins containing the epitope tag sequence. This allows anti-epitope tag antibodies to serve as universal detection reagents for any tag containing protein produced by recombinant means. This means that anti-epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein. The anti-epitope tag antibody is usually functional in a variety of antibody-dependent experimental procedures. Expression vectors producing epitope tag fusion proteins are available for a variety of host expression systems including bacteria, yeast, insect and mammalian cells.

Cellular localization

Nuclear

Images



Western blot - Anti-Myc tag antibody [Hyper-myc] -
 Mouse IgG2a (Chimeric) (ab289980)

All lanes : Anti-Myc tag antibody [Hyper-myc] - Mouse IgG2a
 (Chimeric) (ab289980) at 1/5000 dilution

Lane 1 : HEK-293T (human embryonic kidney) transfected with an
 empty vector (vector control), containing a myc-His-tag®, whole cell
 lysate

Lane 2 : HEK-293T transfected with cas9 (S. Aureas) expression
 vector containing a myc-His-tag®, whole cell lysate

Lane 3 : HEK-293T transfected with human SNCA140 expression
 vector containing a myc-His-tag®, whole cell lysate

Lane 4 : HEK-293T transfected with human IDS expression vector
 containing a myc-His-tag®, whole cell lysate

Lane 5 : HEK-293T transfected with human NF2 S518A
 expression vector containing a myc-His-tag®, whole cell lysate

Lane 6 : HEK-293T transfected with human Alphasynuclein
 expression vector containing a myc-His-tag®, whole cell lysate

Lysates/proteins at 1 µg per lane.

Secondary

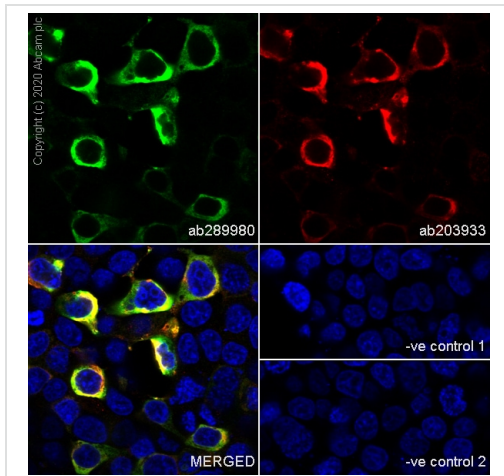
All lanes : Goat Anti-Mouse IgG Fc (HRP) preadsorbed (**ab98717**)
 at 1/10000 dilution (Goat Anti-Mouse IgG Fc (HRP) preadsorbed)

Predicted band size: 49 kDa

Exposure time: 3 seconds

Blocking and dilution buffer: 5% NFDm/TBST

ab289980 detects a ranged of myc tagged proteins in WB.



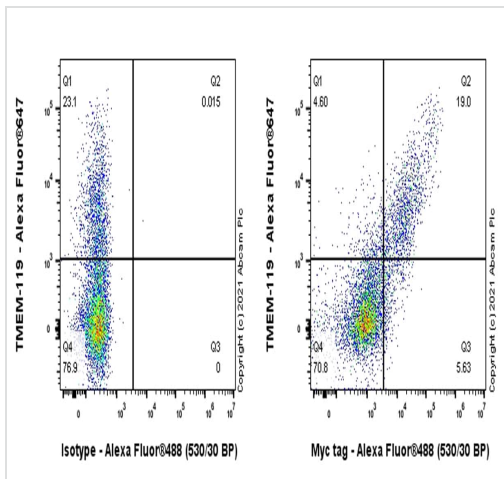
Immunocytochemistry/ Immunofluorescence - Anti-Myc tag antibody [Hyper-myc] - Mouse IgG2a (Chimeric) (ab289980)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK-293T cells transfected with CRISPR-Cas9 (S. Aureas) expression vector containing a myc tag, labeling myc-tag with ab289980 at 1/500 (2.202 µg/ml) dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (**ab150117**) preadsorbed secondary antibody at 1/1000 dilution (Green). Confocal image showing positive staining in HEK-293T cells transfected with CRISPR-Cas9 (S. Aureas) expression vector containing a myc tag.

Nuclear counterstain is DAPI. Cells were also counterstained with **ab203933** Anti-CRISPR-Cas9 rabbit monoclonal antibody at 1/500 (2 µg/ml) dilution, followed by secondary antibody **ab203933** Anti-CRISPR-Cas9 rabbit monoclonal antibody at 1/200 (2.5 µg/ml) dilution.

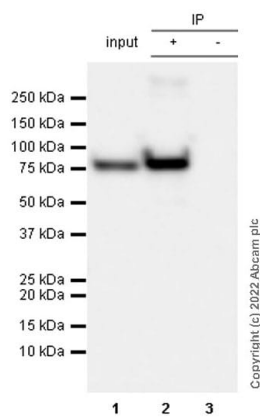
-ve control 1: ab289980 at 1/500 (2.202 µg/ml) dilution, followed by **ab15088** 1/200 (2.5 µg/ml)

-ve control 2: **ab15088** 1/200 (2 µg/ml), followed by **ab150117** 1/1000 (2 µg/ml)



Flow Cytometry (Intracellular) - Anti-Myc tag antibody [Hyper-myc] - Mouse IgG2a (Chimeric) (ab289980)

Intracellular flow cytometric analysis of 293T (human embryonic kidney) transfected with TMEM-119 expression vector containing a myc-His-tag®, fixed with 2% paraformaldehyde and permeabilized 0.1% Tween-20. Cells were surface stained with TMEM-119 conjugated with Alexa Fluor® 647 (**ab225494**). Then fixed with 2% PFA for 10min followed by intracellularly stained with mouse IgG or ab289980. ab289980 was used at 1:1000 dilution (0.1µg)(Right) compared with Mouse monoclonal IgG (Left). Secondary antibody used was Goat anti-Mouse IgG (Alexa Fluor® 488, **ab150113**) at 1/2000 dilution.



Immunoprecipitation - Anti-Myc tag antibody [Hyper-myc] - Mouse IgG2a (Chimeric) (ab289980)

Myc-tag was immunoprecipitated from HEK-293T transfected with human NF2 S518A expression vector containing a myc-His-tag® whole cell lysate (2µg). Western blot was performed using immunoprecipitate, ab289980 was used at 1/30 dilution (2µg in 0.35mg lysates). Secondary antibody used was Veriblot for IP secondary antibody (HRP) ([ab131366](#)) at 1/5000 dilution.

Lane 1 (Input): HEK-293T transfected with human NF2 S518A expression vector containing a myc-His-tag® whole cell lysate, 2µg.

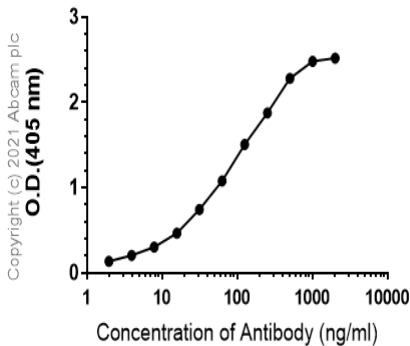
Lane 2 (+): HEK-293T transfected with human NF2 S518A expression vector containing a myc-His-tag® whole cell lysate

Lane 3 (-): Human IgG instead of ab289980 in HEK-293T transfected with human NF2 S518A expression vector containing a myc-His-tag® whole cell lysate

Blocking and dilution buffer: 5% NFD/MTBST.

ab289980 detects a ranged of myc tagged proteins in WB.

Indirect ELISA antibody dose-response curve antigen at 1000 ng/ml







Indirect ELISA - Anti-Myc tag antibody [Hyper-myc] - Mouse IgG2a (Chimeric) (ab289980)

Indirect ELISA antibody dose-response curve of ab289980 for Human myc-tag antigen, at a concentration of 1000ng/ml.

Secondary antibody used was Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Mouse IgG (H+L) at 1/1000 dilution.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-Myc tag antibody [Hyper-myc] - Mouse IgG2a (Chimeric) (ab289980)

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