Anti-HA EPITOPE TAG (RABBIT) Antibody - 600-401-384

Code: 600-401-384 **Size:** 100 µg

Product Description: Anti-HA EPITOPE TAG (RABBIT) Antibody - 600-401-384

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Species Reactivity	HA Tag Proteins
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	rabbit anti-HA epitope tag antibody, rabbit anti-hemagglutinin antibody, rabbit anti-HA tag antibody, anti-epitope
Application Note	Anti-HA is optimally suited for monitoring the expression of HA-tagged fusion proteins. As such, anti-HA/HA can be used to identify fusion proteins containing the HA epitope. The antibody recognizes the HA epitope tag fused to the amino- or carboxy- termini of targeted proteins, as expressed in many commonly used expression vectors. This antibody has been tested by ELISA and western blotting against both the immunizing peptide and HA containing recombinant proteins. Although not tested, this antibody is likely functional for immunoprecipitation, immunocytochemistry, and other immunodetection techniques. Affinity purification of the polyclonal antibody results in very low background levels in assays and low cross-reactivity with other cellular proteins.
Background	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 biochemical properties of the tagged protein. Most often, sequences encoding the epitope tag are included with the 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. HA tag is frequently incorporated into recombinant proteins for a variety of purposes. An anti-HA antibody can then be used to detect the protein when doing studies with transfected cells.
Purity And Specificity	This affinity purified Anti-HA antibody is directed against the HA motif and is useful in determining its presence in various assays. This polyclonal anti-HA tag antibody detects over-expressed proteins containing the HA epitope tag. To date, this antibody has reacted with all HA-tagged proteins tested. In western blotting of bacterial extracts, the antibody does not cross-react with endogenous proteins.
Assay Dilutions	User Optimized
ELISA	1:10,000 - 1:100,000
Western Blot	1:2,000 - 1:10,000
Immunohistochemistry	1:500 - 1:2,000
ChIP	Yes
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Anti-HA antibody was purified from whole rabbit serum prepared by repeated immunizations with the epitope tag peptide YPYDVPDYA (114-122) from hemagglutinin influenza conjugated to KLH.
General Reference	Field, J., et al. (1988) Mol. Cell Biol. 8:2159-2165

Specific Reference

Gassen, N. C., Hartmann, J., Zannas, A. S., Kretzschmar, A., Zschocke, J., Maccarrone, G., ... & Rein, T. (2015). FKBP51 inhibits GSK3 and augments the effects of distinct psychotropic medications. Molecular psychiatry.

Niederkofler V1, Baeriswyl T, Ott R, Stoeckli ET. (2010) Nectin-like molecules/SynCAMs are required for post-crossing commissural axon guidance. Development. 2010 Feb;137(3):427-35. doi: 10.1242/dev.042515. Epub 2010 Jan 7.

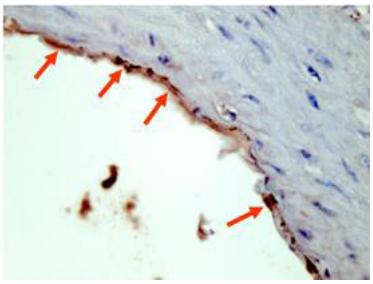
Zhu J, Sammons MA, Donahue G, Dou Z, Vedadi M, Getlik M, Barsyte-Lovejoy D, Al-awar R, Katona BW, Shilatifard A, Huang J, Hua X, Arrowsmith CH, Berger SL. (2015) Gain-of-function p53 mutants co-opt chromatin pathways to drive cancer growth. Nature. 2015 Sep 10;525(7568):206-11. doi: 10.1038/nature15251. Epub 2015 Sep 2.

Related Products

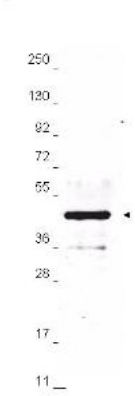
200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Images

1 Rockland's Affinity Purified anti-HA epitope tag polyclonal antibody detects HA tagged recombinant proteins by IHC on formalin fixed paraffin embedded tissue. Arrowheads point to expression of HA tagged proteins in endothelial cells of mouse aorta. Sections of 4 µm were prepared from representative paraffin blocks. Sections were then deparaffinized and rehydrated with xylene and alcohol. Citrate buffer antigen retrieval was performed for 30 min in a boiling jar. Anti-HA was diluted in blocking buffer at 1:2,000 and reacted at 4° C overnight followed by signal detection using horseradish peroxidase with DAB as the chromogenic substrate. Tissue was counterstained with Mayer's hematoxylin. Personal Communication, Behzad Yeganeh,U. Manitoba, Winnipeg, Canada.



2 Anti-HA epitope tag polyclonal antibody detects HA-tagged recombinant proteins by western blot. Polyclonal Rabbit anti-HA epitope tag, at a 1:2,000 dilution, was used to detect 1.0 µg of 12-Epitope Tag Protein Marker Lysate (p/n MB-301-0100) containing the HA epitope tag. A 4-20% gradient gel was used to resolve the protein by SDS-PAGE. The lysate was transferred to nitrocellulose using standard methods. After blocking, the membrane was probed with Rockland's anti-HA tag antibody for 1 h at room temperature followed by washes and reaction with a 1:20,000 dilution of IRDye® 800 conjugated Gt-a-Rabbit IgG (H&L) MX10 (code 611-132-122) for 30 min at room temperature. LICOR's Odyssey® Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results.



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