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Schillerstr. 5

SM1693B Monoclonal Antibody to 6xHistidine Epitope Tag (HHHHHH) -

Biotin

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Host / Isotype: Mouse / IgG1

Clone: AD1.1.10

Immunogen: PAX6 transcription factor linked to *Histidine tag*

Format: State: Liquid purified IgG fraction from tissue culture supernatant

Purification: Affinity Chromatography on Protein G

Buffer System: PBS

Preservatives: 0.09% Sodium Azide

Label: Biotin

Applications: ELISA: 1/1000.

Western blot: 1/1000. Immunoprecipitation.

Immunohistochemistry on Frozen Sections.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: This antibody recognizes proteins containing the motif H-H-H-H-H and is therefore

of value in detecting proteins containing *Histidine tags*.

The antibody may be used to track the purification of proteins expressed in bacteria,

yeast or insect cells. It reacts against all His tagged proteins so far tested.

In Western blotting of bacterial extracts the antibody has been shown not to cross-react with any endogenous products, although some cross-reactivity may be seen

with extracts of insect or mammalian cells.

This antibody is routinely tested in Western blotting on Histidine tagged recombinant

proteins and reacts against all Histidine-tagged proteins so far tested.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Product Citations: Purchased from Acris:

1. Su L, Lu G, Kenens B, Rocha S, Fron E, Yuan H, et al. Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. Nat Commun. 2015 Feb 17;6:6287. doi: 10.1038/ncomms7287. PubMed

PMID: 25687887.

General Readings: 1. Els Conrath K, Lauwereys M, Wyns L, Muyldermans S. Camel single-domain

antibodies as modular building units in bispecific and bivalent antibody constructs. J Biol Chem. 2001 Mar 9;276(10):7346-50. Epub 2000 Oct 25. PubMed PMID: 11053416. 2. Suen JL, Wu CH, Chen YY, Wu WM, Chiang BL. Characterization of self-T-cell

response and antigenic determinants of U1A protein with bone marrow-derived



- dendritic cells in NZB x NZW F1 mice. Immunology. 2001 Jul;103(3):301-9. PubMed PMID: 11454059.
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- 4. Zheng J, Kohler ME, Chen Q, Weber J, Khan J, Johnson BD, et al. Serum from mice immunized in the context of Treg inhibition identifies DEK as a neuroblastoma tumor antigen. BMC Immunol. 2007 Mar 30;8:4. PubMed PMID: 17397536.
- 5. Bahi A, Dreyer JL. Overexpression of plasminogen activators in the nucleus accumbens enhances cocaine-, amphetamine- and morphine-induced reward and behavioral sensitization. Genes Brain Behav. 2008 Mar;7(2):244-56. Epub 2007 Aug 3. PubMed PMID: 17680802.
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- 8. Alvarez MM, López-Pacheco F, Aguilar-Yañez JM, Portillo-Lara R, Mendoza-Ochoa GI, García-Echauri S, et al. Specific recognition of influenza A/H1N1/2009 antibodies in human serum: a simple virus-free ELISA method. PLoS One. 2010 Apr 14;5(4):e10176. doi: 10.1371/journal.pone.0010176. PubMed PMID: 20418957.
- 9. Bahi A, Kusnecov A, Dreyer JL. The role of tissue-type plasminogen activator system in amphetamine-induced conditional place preference extinction and reinstatement. Neuropsychopharmacology. 2008 Oct;33(11):2726-34. doi: 10.1038/sj.npp.1301668. Epub 2008 Feb 6. PubMed PMID: 18256596.
- 10. Gunnarsen KS, Lunde E, Kristiansen PE, Bogen B, Sandlie I, Løset GÅ. Periplasmic expression of soluble single chain T cell receptors is rescued by the chaperone FkpA. BMC Biotechnol. 2010 Feb 3;10:8. doi: 10.1186/1472-6750-10-8. PubMed PMID: 20128915
- 11. Hwang HY, Duvall MR, Tomlinson S, Boackle RJ. Highly specific inhibition of C1q globular-head binding to human IgG: a novel approach to control and regulate the classical complement pathway using an engineered single chain antibody variable fragment. Mol Immunol. 2008 May;45(9):2570-80. doi:
- 10.1016/j.molimm.2007.12.019. Epub 2008 Mar 3. PubMed PMID: 18313756.
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- 14. Than NG, Romero R, Xu Y, Erez O, Xu Z, Bhatti G, et al. Evolutionary origins of the placental expression of chromosome 19 cluster galectins and their complex



dysregulation in preeclampsia. Placenta. 2014 Nov;35(11):855-65. doi: 10.1016/j.placenta.2014.07.015. Epub 2014 Aug 26. PubMed PMID: 25266889.

Pictures:

Western blot of HIS tagged protein probed with mouse anti Histidine Tag -Biotin (SM1693B) and visualised with Streptavidin - HRP

