

SM1693F**Monoclonal Antibody to 6xHistidine Epitope Tag (HHHHHH) - FITC**

Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	6x-His tags are a type of tag for expressed proteins. This tag is made up of 6 histidine residues attached to either the N- or C-terminal of a protein. Proteins expressed with this type of tag are then traditionally purified using a divalent metal ion column. However, using an antibody specific to this 6x-His tag, the protein can be analyzed for by Western blot or immunofluorescence techniques, thus eliminating the need for a protein-specific antibody. 6x-His tags are particularly effective for the purification of protein expressed in E. coli systems.
Host / Isotype:	Mouse / IgG1
Clone:	AD1.1.10
Immunogen:	PAX6 transcription factor linked to histidine tag. Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Immunofluorescence. Flow Cytometry: Use 10 µl of 1/10 diluted antibody to label 1x10 ⁶ cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises 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. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
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

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Pictures:

Human anti-human CD5 (HuCAL dHLX antibody with HIS tag) staining human peripheral blood lymphocytes, visualised with FITC conjugated Mouse anti-HIS tag antibody (SM1693F).

