

# Anti-6X His tag Antibody [A5C12]

HA600028



|                            |                                           |
|----------------------------|-------------------------------------------|
| <b>Product Type:</b>       | Mouse monoclonal IgG1, primary antibodies |
| <b>Species reactivity:</b> | Species independent                       |
| <b>Applications:</b>       | WB, ELISA                                 |
| <b>Clone number:</b>       | A5C12                                     |

**Description:** His-Tag Antibody is a high quality monoclonal His-Tag antibody (also designated 6X His-Tag antibody or His-Probe antibody) suitable for the detection of the His-Tag protein. His-Tag Antibody is available as both the non-conjugated anti-His-Tag antibody form, as well as multiple conjugated forms of anti-His-Tag antibody, including agarose, HRP, PE, FITC and multiple Alexa Fluor® conjugates. Plasmid vectors for the expression of coding regions of eukaryotic genes in bacterial, insect and mammalian hosts are in common usage; such expression vectors are frequently used to encode hybrid fusion proteins consisting of a eukaryotic target protein and a specialized region designed to aid in the purification and visualization of the target protein. A system that has proven to be very successful relies on the insertion of a six histidine (His6) sequence in the N-terminus of the encoded protein, allowing for efficient coupling to Ni<sup>2+</sup>-chelating resins and purification by single step affinity chromatography. This polyhistidine sequence can then be removed by specific cleavage at sites recognized by enzymes such as thrombin or enterokinase, permitting the separation of the target protein from the polyhistidine tag. Visualization of such fusion proteins can be achieved by utilizing antibodies generated against specific peptide sequences downstream from the multiple cloning site.

**Immunogen:** Synthetic peptide HHHHHHGCGRHHHHHH.

**Positive control:** C-terminal His-tagged recombinant protein lysates, N-terminal His-tagged recombinant protein lysates.

**Recommended Dilutions:**

|              |                                          |
|--------------|------------------------------------------|
| <b>WB</b>    | 1:5,000-1:10,000                         |
| <b>ELISA</b> | Use at an assay dependent concentration. |

**Storage Buffer:** 1\*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein G affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

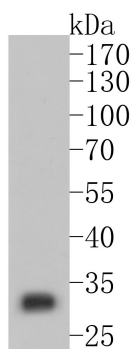
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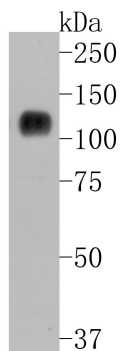
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

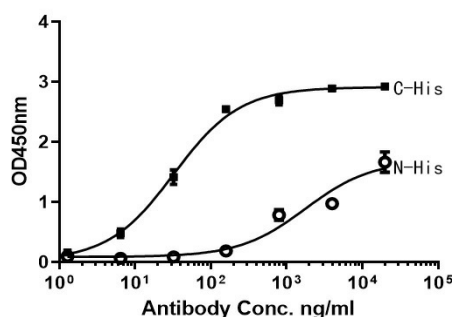
## Images



**Fig1:** Western blot analysis of His-tag on C-terminal His-tagged recombinant protein lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (HA600028, 1/10,000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:20,000 dilution was used for 1 hour at room temperature.



**Fig2:** Western blot analysis of His-tag on N-terminal His-tagged recombinant protein lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (HA600028, 1/10,000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:20,000 dilution was used for 1 hour at room temperature.



**Fig3:** Immobilized His-tagged recombinant protein at 1 µg/ml overnight at 4 °C. Then blocked with 1% BSA for 1 hour at 37 °C, and incubated with the primary antibody for 1 hour at 25 °C.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Meng L. et. al. Effects of His-tag on Catalytic Activity and Enantioselectivity of Recombinant Transaminases. Appl Biochem Biotechnol. 2020 Mar

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