

M5 His-Tag (10E2) Mouse Monoclonal Antibody 使用说明书

产品名称	单位	货号
M5 His-Tag (10E2) Mouse Monoclonal Antibody	50 μ l	MF082-T
M5 His-Tag (10E2) Mouse Monoclonal Antibody	100 μ l	MF082-01

【STORAGE】

Store at -20°C. Stable for one year from the date of shipment..

【BACKGROUND】

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 Ni²⁺-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 sites.

【REFERENCES】

1. Maniatis, T., et al. 1982. Molecular Cloning. Cold Spring Laboratory, Cold Spring Harbor, NY.
2. Hochuli, E. 1988. Large-scale chromatography of recombinant proteins. J.Chromatog. 444: 293-302.

【SOURCE】

This monoclonal antibody is produced by immunizing mice with a 6 \times His synthetic peptide (KLH-coupled).

【SPECIFICITY】

His-Tag (10E2) Mouse mAb detects over-expressed or recombinant proteins containing the 6 \times His epitope tag.

【REACTIVITY】

All

【ISOTYPE】

Mouse IgG1

IMPORTANT

Use an anti-MOUSE secondary antibody to detect the 10E2 antibody.

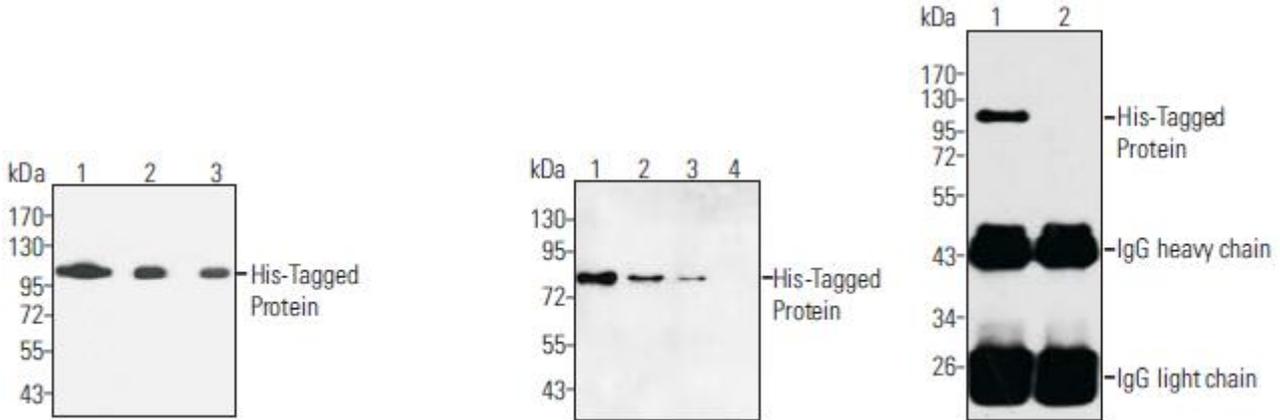
RECOMMENDED ANTIBODY DILUTIONS

Western blotting	1:5000
Immunofluorescence	1:2000
Immunoprecipitation	1:100
ELISA	1:2000

For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1XTBS, 0.05% Tween-20 at 4°C

with gentle shaking,overnight.

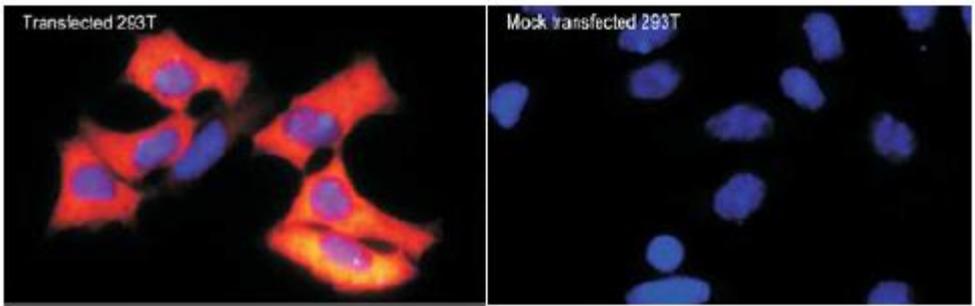
APPLICATION DATA



Western blot analysis of over-expressed His-tagged protein in 293T cell lysate,using His-tag(10E2) Mouse mAb.The antibody dilutions are 1:2000(lane1)and1:5000(lane2)and1:10000(lane3).Each lane was loaded with 10µg of cell lysate.

10E2 can specifically detect 1ng of recombinant protein. There is 6 ng, 3 ng,1 ng, and 0 ng His-tagged recombinant protein in lanes 1-4, respectively, added with 20 µg of 293T cell lysate. The 10E2 antibody dilution is 1:2000.

IP of extracts from 293T cells transfected (lane 1) with a His-tagged protein and a mock transfection (lane 2, using the same protein without the His tag), using His-Tag (10E2) Mouse mAb and probed on Western blot using the same antibody. Dilution: 1:100 (1), 1:100 (2).



IF analysis of 293T cells transfected (left) with a His-tagged protein and a mock transfection (right,using the same protion without the His-tag),using His-Tag(10E2) Mouse mAb at a 1:2000 dilution.

【备注】

本产品仅供科研使用。在确认产品质量出现问题时，本公司承诺为客户免费更换等量的质量合格产品。