Product no **YH-80024S**

His-Tag(2A8) Mouse mAb

Product information

Target description

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^{++}- 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.

Antigen

This YH monaclonal antibody is produced by immunizing mice with a 6x His synthetic peptide (KLH-coupled)

Application

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, 1x TBS, 0.05% Tween-20 at 4°C with gentle shaking, overnight.

Reactivity

All

Storage

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

Package

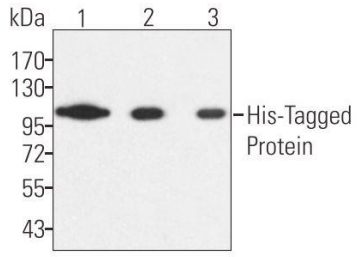
20µl/per tube

References

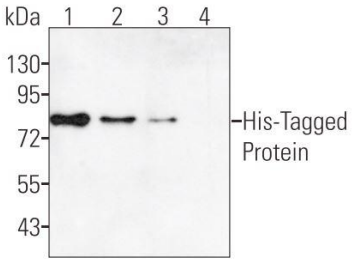
1. Maniattis, T, et al. 1982. Molecular Cloning. Cold Spring Laboratory, Cold Spring Harbor, NY.
2. Hochuli, E. 1988. Large-scale chromatography of recombinant proteins. J. Chromatog. 444: 293-302.

Isotype

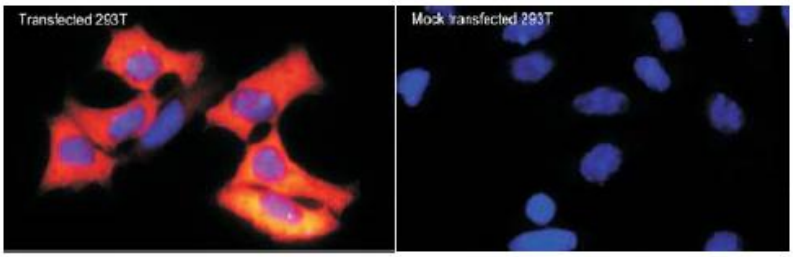
Mouse IgG1



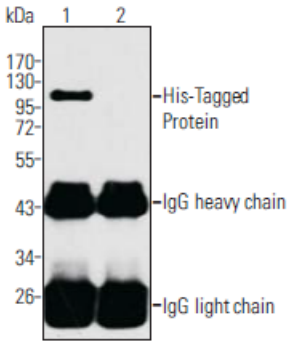
Western blot analysis of over-expressed His-tagged protein in 293T cell lysate, using YH His-tag (2A8) Mouse mAb. The antibody dilutions are1:2000 (lane 1), 1:5000 (lane 2) and 1:10000 (lane 3). Each lane was loaded with 10 µg of cell lysate.



2A8 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 2A8 antibody dilution is 1: 2000.



IF analysis of 293T cells transfected (left) with a His-tagged protein and a mock transfection (right, using the same protein without the His tag), using YH His-Tag (2A8) Mouse mAb at a 1: 2000 dilution.



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 YH His-Tag (2A8) Mouse mAb and probed on Western blot using the same antibody. Dilution: 1：100 (1), 1：100(2).