

His-Tag

Tested applications:WB IF IP

Recommended Dilution:WB 1:2000 - 1:5000 IF 1:50 - 1:500 IP 1:50 - 1:100

Observed MW:Refer to Figures

Immunogen:

A synthetic peptide of His tag

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Catalog #:AE003

Antibody Type:

Monoclonal Antibody

Species:Mouse

Isotype:IgG

Purity:Affinity purification

For research use only.

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 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.

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