

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Isotype
W, IP Transfected	All	Mouse IgG1**

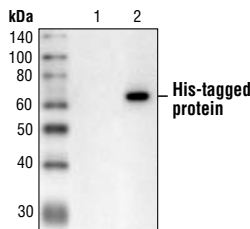
**Background:** Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation and immunostaining techniques. Due to their small size, they are unlikely to affect the tagged protein's biochemical properties.

A variety of plasmids contain DNA that encodes an amino-terminal tag consisting of six histidine (6xHis) residues followed by an extended multiple cloning site. The 6xHis tag on the expressed recombinant proteins allows for efficient coupling to Ni<sup>2+</sup> affinity resins and purification by single step chromatography (1).

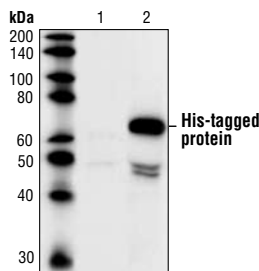
As is the case with other protein tag systems (2), this polyhistidine tag can often be cleaved at sites recognized by proteases such as thrombin and enterokinases to isolate the protein of interest (1).

**Specificity/Sensitivity:** His-Tag (27E8) Mouse mAb only recognizes His-tag. It is expected that this antibody will react with proteins tagged with His from all species.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a 6xHis synthetic peptide.



Western blot analysis of extracts from control (lane 1) or cells expressing C-terminal His-tagged protein (lane 2), using His-Tag (27E8) Mouse mAb.



Immunoprecipitation of control lysate (lane 1) or C-terminal His-tagged protein (lane 2), using His-Tag (27E8) Mouse mAb, followed by Western analysis with His-Tag Polyclonal Antibody #2365.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-mouse secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western Blotting	1:1000
Immunoprecipitation	1:200

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**Background References:**

- (1) Kroll, D.J. et al. (1993) *DNA Cell Biol.* 12, 441–453.
- (2) di Guan, C. et al. (1988) *Gene* 67, 21–30.

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**