

## Catalog #: T021

### Aliases

6 His epitope tag; Hexa His tag; HHHHHH epitope tag; HHHHHH tag; His tag

### Background

The His-Tag (or Polyhistidine tag) is a short amino acid sequence, typically composed of six to ten consecutive histidine residues (e.g., His<sub>6</sub>), genetically engineered onto either the N- or C-terminus of a recombinant protein. Its primary function is to facilitate the purification of the tagged protein using immobilized metal affinity chromatography (IMAC). Histidine residues possess an imidazole side chain that exhibits high affinity for certain divalent metal ions, such as nickel (Ni<sup>2+</sup>), cobalt (Co<sup>2+</sup>), copper (Cu<sup>2+</sup>), or zinc (Zn<sup>2+</sup>). This specific interaction allows the His-tagged protein to bind tightly to a chromatography resin charged with one of these metal ions.

### Application Information

Molecular Weight: Recombinant protein dependent

Clonality: Mouse monoclonal antibody

Clone ID: 25GB7060

Species Reactivity: Recombinant protein

Applications Tested: Western blotting (WB)

### Immunogen

A synthesized peptide derived from His-Tag

### Isotype

Mouse IgG1

### Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.05% Proclin 300.

### Storage

Store at -20 °C for one year.

### Recommended Dilutions

Western Blotting (WB): 1:1,000-1:5,000

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#### SUPPORT

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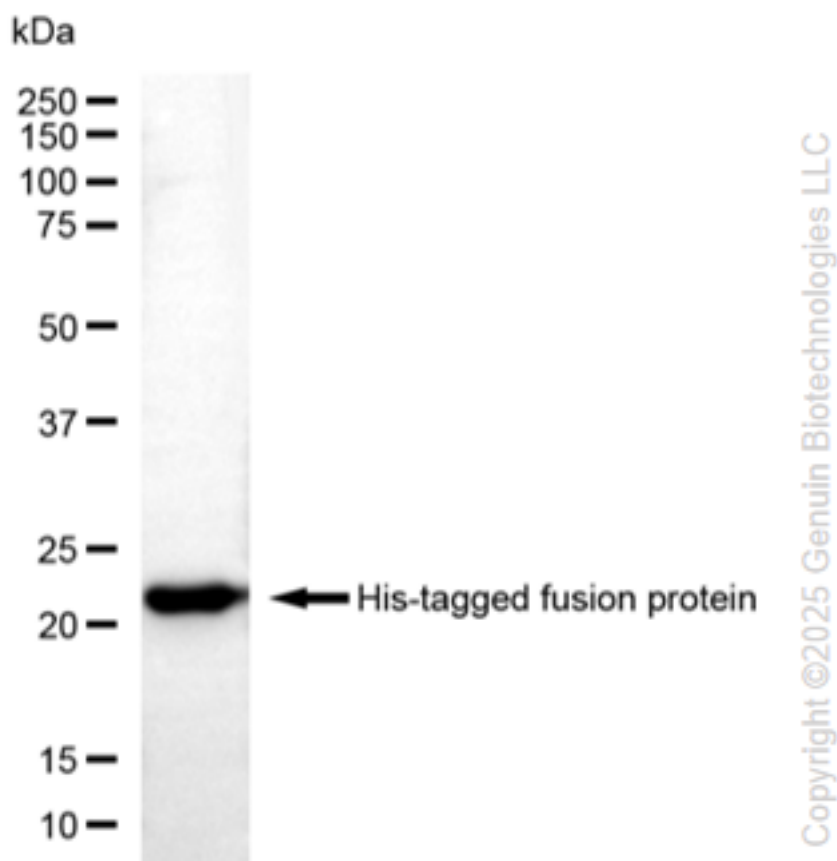
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**Note:** This product is for research use only.

## Validation Data



Western blotting analysis using anti-His tag antibody (Cat#T021). HHHHHH tagged-fusion protein (0.50 µg) expressed by E. coli were loaded and separated by SDS-PAGE. The blot was incubated with anti-His tag antibody (Cat#T021, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).