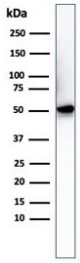
# Histidine Antibody / His Tag [clone 6HIS/3550] (V8566)

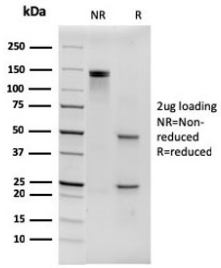
| Catalog No. | Formulation | Size |
|---|---|---|
| V8566-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8566-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8566SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | All species |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | 6HIS/3550 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | Not Applicable |
| **Applications** | Western Blot : 1-2ug/ml<br>Flow Cytometry : 0.5-1ug/million cells<br>Immunofluorescence : 0.5-1ug/ml<br>Immunoprecipitation : 2-4ug/500ug protein |
| **Limitations** | This Histidine antibody is available for research use only. |




Western blot analysis of Histidine antibody in His-tagged protein samples. A recombinant His-tagged protein was resolved by SDS-PAGE under reducing conditions and probed with Histidine antibody. A strong immunoreactive band is detected at approximately 50 kDa, consistent with the expected molecular weight of the His-tagged target protein. The clean banding pattern supports specific detection of polyhistidine-tagged recombinant proteins.




SDS-PAGE analysis of purified, BSA-free Histidine antibody (clone 6HIS/3550) as confirmation of integrity and purity.

## Description

Histidine antibody recognizes the polyhistidine sequence, commonly referred to as the His Tag, a short stretch of histidine residues commonly engineered into recombinant proteins for purification and detection. Histidine antibody, also referred to as His Tag antibody, 6xHis antibody, and anti-His antibody in the literature, detects histidine-tagged fusion proteins expressed in bacterial, mammalian, or insect systems. Clone 6HIS/3550 provides defined monoclonal recognition of the polyhistidine epitope for reliable detection of recombinant constructs in research workflows.

The His Tag typically consists of six consecutive histidine residues positioned at the N- or C-terminus of a target protein. This tag enables affinity purification using immobilized metal affinity chromatography and facilitates downstream immunodetection. Because the histidine tag is relatively small and generally does not interfere with protein folding or biological activity, it remains one of the most widely used affinity tags in molecular biology and protein engineering applications.

Detection of His-tagged proteins is essential for confirming expression, assessing purification efficiency, and verifying molecular integrity. In denatured lysates, intact fusion proteins are typically detected at their predicted molecular weight, while truncated or degraded products may also be observed depending on expression system stability. Accurate recognition of the polyhistidine sequence is therefore important for proper interpretation of recombinant protein experiments.

Clone 6HIS/3550 recognizes the histidine tag independent of the fused protein backbone, supporting broad detection across diverse recombinant constructs. Defined monoclonal specificity promotes consistent detection of His-tagged proteins in analytical workflows.

Histidine antibody, also known as a His Tag antibody, is suitable for research applications focused on recombinant protein detection, purification validation, and molecular characterization of His-tagged constructs.

## Application Notes

Optimal dilution of the Histidine antibody should be determined by the researcher.

## Immunogen

Hexa-histidine tagged human recombinant protein was used as the immunogen for the Histidine antibody.

## Storage

Store the Histidine antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).