



Source

Monoclonal Anti-His Tag Antibody, Human IgG1 (AY63) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human IgG1 constant domain.

Host Species

Human

Isotype

Human IgG1 | Human Kappa

Specificity

This product is a specific antibody specifically reacts with His tag protein, and can recognize C-terminal, N-terminal, and internal His tagged fusion proteins.

Immunogen

A protein peptide with his tag.

Antibody Type

Human-Mouse Chimeric Monoclonal

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Conjugate

Unconjugated

Purification

Protein A purified/ Protein G purified

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

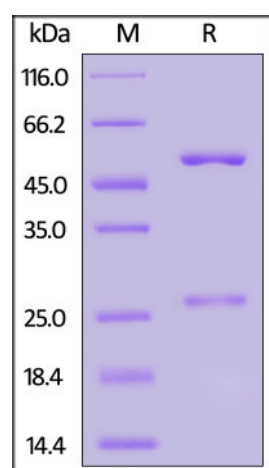
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

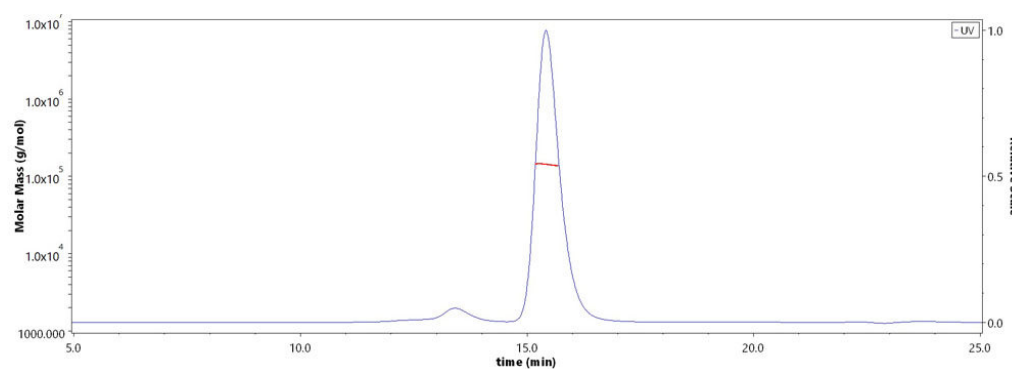
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Monoclonal Anti-His Tag Antibody, Human IgG1 (AY63) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Monoclonal Anti-His Tag Antibody, Human IgG1 (AY63) (Cat. No. HIS-M535) is more than 90% and the molecular weight of this protein is around 135-155 kDa verified by SEC-MALS.

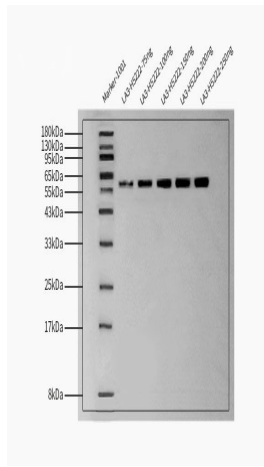
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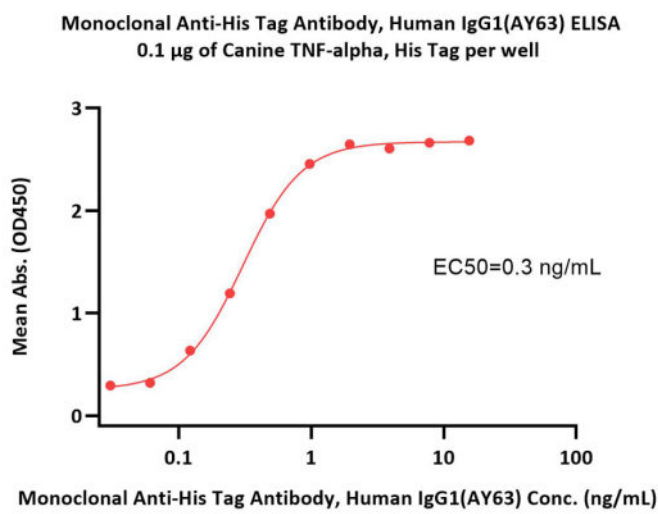


Western Blot



Detection of Monoclonal Anti-His Tag Antibody, Human IgG1 (AY63), mAb by Western Blot. Monoclonal Anti-His Tag Antibody, Human IgG1 (AY63), mAb at 1/20000 dilution + Human LAG-3 / CD223 Protein , His Tag at 75-250ng. Secondary Antibody: (HFC)-HRP Goat Anti-Human IgG,Fcγ fragment specific (min X Bov,Hrs,Ms Sr Prot) at 1/2000 dilution. Predicted band size: 60 kDa 12% Bis-Tris Protein Gel.

Bioactivity-Elisa



Immobilized Canine TNF-alpha, His Tag (Cat. No. TNA-C52H3) at 1 μg/mL (100 μL/well) can bind Monoclonal Anti-His Tag Antibody, Human IgG1(AY63) (Cat. No. HIS-M535) with a linear range of 0.1-1 ng/mL (QC tested).

Background

His tag is a very small molecular weight tag, usually composed of 6-10 histidine (His). It is one of the commonly used tags for protein purification and detection. Due to its small molecular weight, fusion into the target protein has almost no effect on the structure and characteristics of the protein. Anti-his tag antibody can accurately detect, locate and purify His tag fusion protein, so as to provide convenience for the vast number of researchers.

Clinical and Translational Updates

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