

**Source**

Biotinylated Anti-His Tag Antibody(AY63), Fab is a Fab fragment of a mouse monoclonal antibody recombinantly expressed from human 293 cells (HEK293). The mouse monoclonal antibody is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with a poly-his tagged protein.

**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.

**Application**

ELISA

**Purity**

>95% as determined by SDS-PAGE.

**Endotoxin**

Less than 1.0 EU per mg by the LAL method.

**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.*

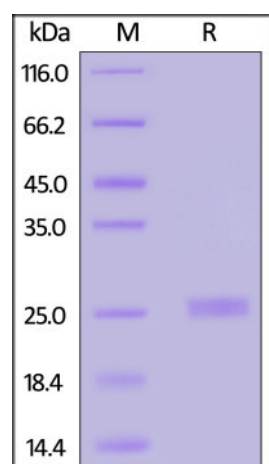
**Storage**

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:

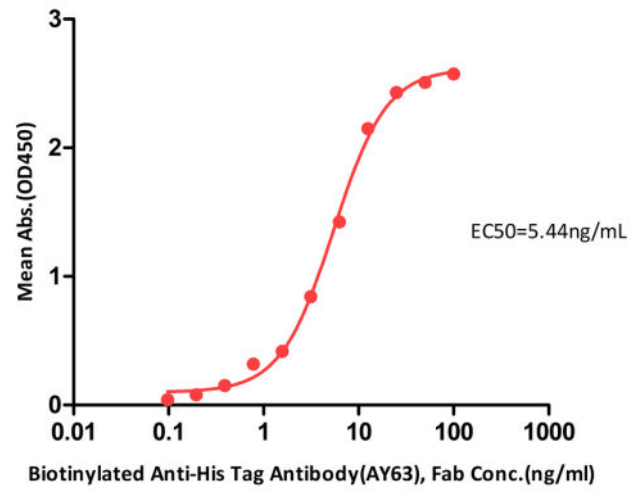
- -20°C to -70°C for 12 months in lyophilized state;
- -70 °C for 3 months after reconstitution;

**SDS-PAGE**

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

**Bioactivity-Elisa**

**Biotinylated Anti-His Tag Antibody(AY63), Fab ELISA**  
0.1µg of SARS-CoV-2 Nucleocapsid protein, His Tag (BQ.1/Omicron) per well



Immobilized SARS-CoV-2 Nucleocapsid protein, His Tag (BQ.1/Omicron) (Cat. No. NUN-C52Hx) at 1µg/mL (100µL/well) can bind Biotinylated Anti-His Tag Antibody(AY63), Fab (Cat. No. HIS-BVM539) with a linear range of 0.2-100ng/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

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.