Anti-Human IgG Antibody-Acridinium ester (MALS verified)

Catalog # AHG-Y69

Source

Anti-Human IgG Antibody-Acridinium ester antibody is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with IgG.

Isotype

Mouse IgG1/kappa

Specificity

This product is a specific antibody specifically reacts with IgG.

Labeling

Acridinium ester, can react with the primary amino group of protein. Under alkaline conditions, NHS is replaced as the leaving group, and the protein forms a stable amide bond with Acridinium ester.

Protein Ratio

Passed as determined by binding MPCLIA.

Application

MPCLIA

Purity

>95% as determined by SDS-PAGE.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH6.3.

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

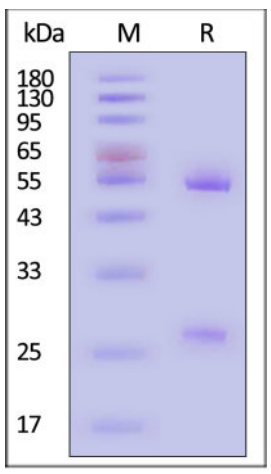
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

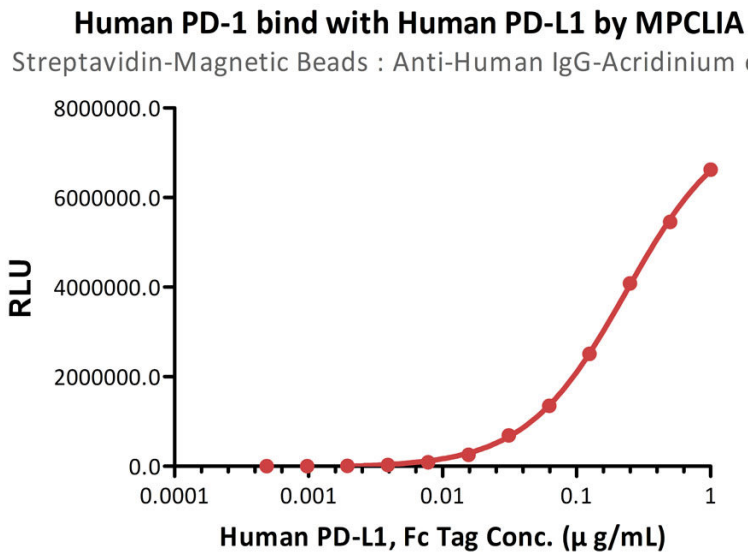
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

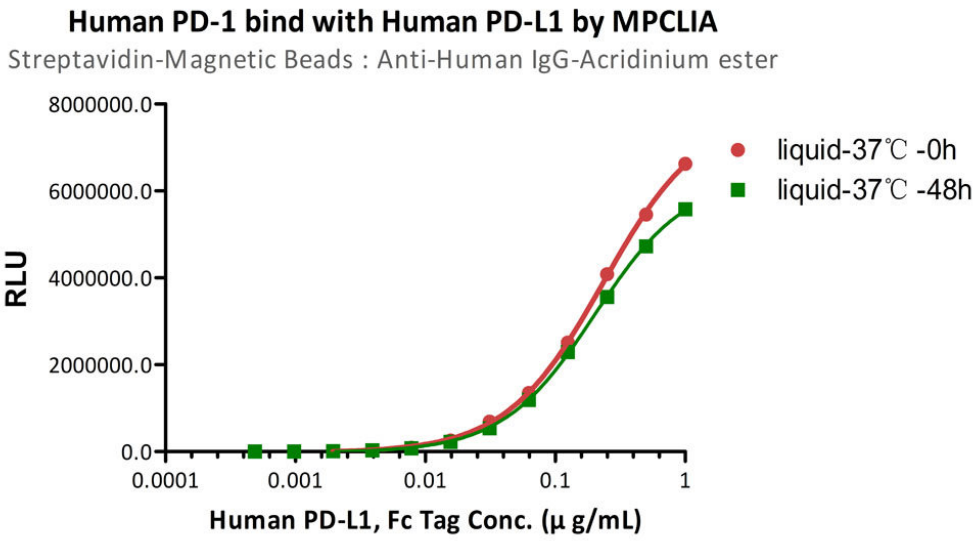


Anti-Human IgG Antibody-Acridinium ester on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

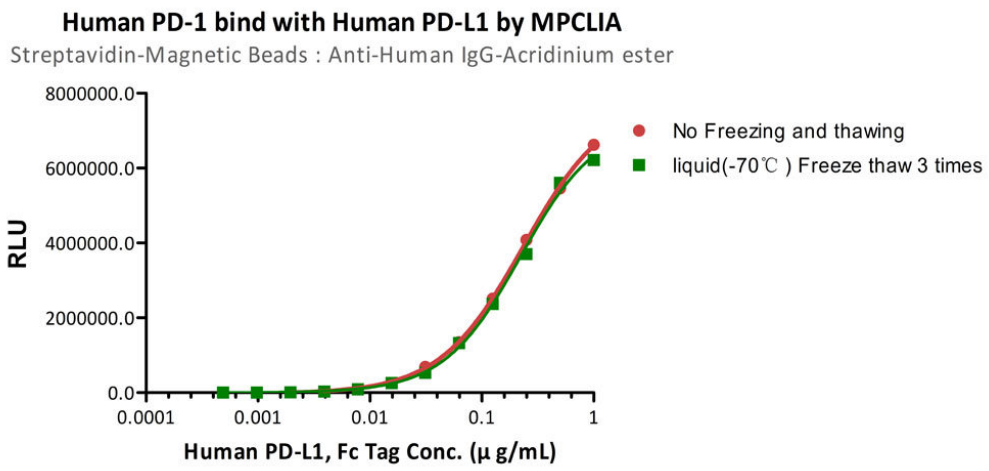
Bioactivity-MPCLIA



Immobilized 0.04 μg /Test of Biotinylated Human PD-1 Protein, Avitag,His Tag (Cat. No. PD1-H82E4) to the Streptavidin-Magnetic Beads (used for MPCLIA) (Cat. No. MPC-A006, 20 μg beads/Test), incubated with 100 μL /Test of Human PD-L1, Fc Tag (Cat. No. PD1-H5258) at increasing concentration coupled to Anti-Human IgG Antibody-Acridinium ester (Cat. No. AHG-Y69, 0.04 μg /Test). Detection was performed with sensitivity of 0.488 ng/mL in Magnetism particulate chemiluminescence immunoassay (MPCLIA) (KEYSMILE, SMART 6500S) (QC tested).



The MPCLIA assay shows that Anti-Human IgG Antibody-Acridinium ester (Cat. No. AHG-Y69) is stable at 37°C for 48 hours.



The MPCLIA assay shows that Anti-Human IgG Antibody-Acridinium ester (Cat. No. AHG-Y69) is stable after freezing and thawing 3 times.

Background

The Anti-Human IgG-Acridine Ester is an acridinium ester labeled Monoclonal mouse anti-human IgG antibody can be used to capture the human IgG in Chemiluminescence procedures.
The antibody reacts with the Fc portion of human IgG heavy chain but not with the Fab portion of human IgG. No antibody was detected against human IgM or IgA, or against non-immunoglobulin serum proteins. The antibody has been tested by ELISA and/or solid-phase adsorbed to ensure minimal cross-reaction with mouse, cynomolgus and bovine serum proteins, but it is not sure if the product cross-react with immunoglobulins from other species.
Acridinium ester is one of the most commonly used excited substrates for protein labeling and widely used in automated instruments because of its high sensitivity with detection limits in the attomole range. Acridinium ester can be triggering by chemiluminescent substrate solution and generate intense signal, the result signals (relative light units, RLU) can be measured at 430 nm.
The Anti-human IgG-Acridine Ester is easy to capture the human IgG, and the bounded human IgG have no activity lost, this ready to use products could greatly save your protein labeling time and hassle, and help us get the best performance and highly reproducible results.

Clinical and Translational Updates