

Product datasheet

Recombinant mouse PD1 protein (Fc Chimera) ab221326

[4 Images](#)

Description

| | | |
|--|---|--|
| Product name | Recombinant mouse PD1 protein (Fc Chimera) | |
| Biological activity | Immobilized Mouse PD-L1, Fc Tag at 5 µg/mL (100 µL/well) can bind Mouse PD-1, mouse IgG2a Fc tag with a linear range of 0.078-0.313 µg/mL. | |
| Purity | > 95 % SDS-PAGE. | |
| Endotoxin level | < 1.000 Eu/µg | |
| Expression system | HEK 293 cells | |
| Accession | Q02242 | |
| Protein length | Protein fragment | |
| Animal free | No | |
| Nature | Recombinant | |
| Species | Mouse | |
| Sequence | SGWLLEVPNGPWRS�TFYPAWLTVSEGANATFTCSLSN WSEDLMLNWNRL SPSNQTEKQAAFCNGLSQPVQDARFQIIQLPNRHDFHMNI LDTRRNDSGI YLCGAISLHPKAKIEESPGAELVVTERILETSTRYPSPSPKP EGRFQ | |
| Predicted molecular weight | 44 kDa including tags | |
| Amino acids | 21 to 167 | |
| Additional sequence information | This protein carries a mouse IgG2a Fc tag ((Glu 98 - Lys 330; P01863) at the C-terminus (NP_032824). | |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab221326** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|---------------------|-------------|
| Applications | SDS-PAGE |
| Form | Lyophilized |

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 95% PBS, 5% Trehalose

Lyophilized from 0.22 µm filtered solution.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

General Info

Function

Possible cell death inducer, in association with other factors.

Involvement in disease

Genetic variation in PDCD1 is associated with susceptibility to systemic lupus erythematosus type 2 (SLEB2) [MIM:605218]. Systemic lupus erythematosus is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.

Sequence similarities

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

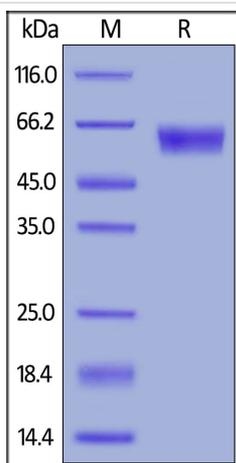
Developmental stage

Induced at programmed cell death.

Cellular localization

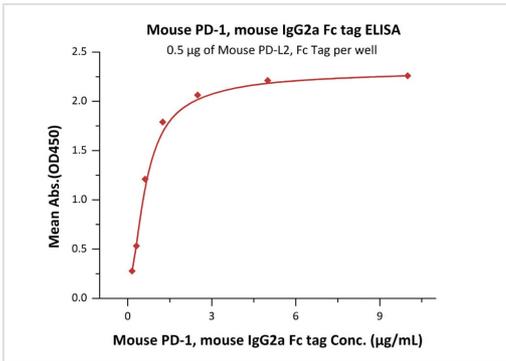
Membrane.

Images



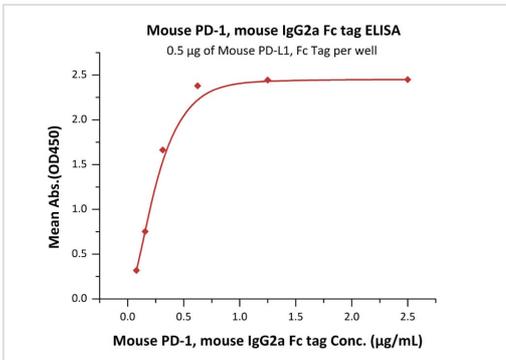
Mouse PD-1, mouse IgG2a Fc tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

SDS-PAGE - Recombinant mouse PD1 protein (Fc Chimera) (ab221326)



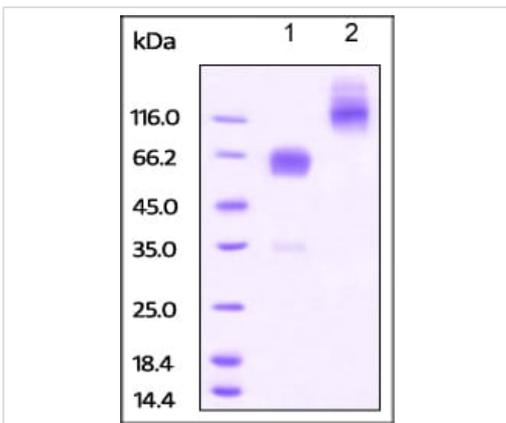
Immobilized Mouse PD-L2, Fc Tag at 5 µg/mL (100 µL/well) can bind Mouse PD-1, mouse IgG2a Fc tag with a linear range of 0.078-0.625 µg/mL.

Functional Studies - Recombinant mouse PD1 protein (Fc Chimera) (ab221326)



Immobilized Mouse PD-L1, Fc Tag at 5 µg/mL (100 µL/well) can bind Mouse PD-1, mouse IgG2a Fc tag with a linear range of 0.078-0.313 µg/mL.

Functional Studies - Recombinant mouse PD1 protein (Fc Chimera) (ab221326)



SDS-PAGE analysis of reduced (lane 1) and non-reduced (lane 2) ab221326 staining overnight with Coomassie Blue.

The protein migrates as 55-66 kDa under reducing conditions and 100-130 kDa under non-reducing conditions on SDS-PAGE gel.

SDS-PAGE - Recombinant Mouse PD1 protein (Fc Chimera) (ab221326)

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