

Recombinant human PD1 protein (Active) ab174035

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描述

产品名称	重组人PD1蛋白(Active)
生物活性	Measured by its binding ability in a functional ELISA. Immobilized PD1 at 10 µg/ml (100 µl/well) can bind recombinant Human B7-H1 Fc chimera with a linear range of 0.005- 0.4 µg/ml.
纯度	> 95 % SDS-PAGE. >90% as determined by SEC-HPLC. Purified by Immobilized metal affinity chromatography.
内毒素水平	< 1.000 Eu/µg
表达系统	HEK 293 cells
Accession	<u>Q15116</u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	LDSPDRPWNPTFSPALLVVTEGDNATFTCSFSNTSEFVLN WYRMSPSN QTDKLAAFPEDRSQPGQDCRFRVTQLPNGRDFHMSVVRARRN DSGTYLCG AISLAPKAQIKESLRAELRVTERRAEVPTAHPSPSRPAGQF Q
预测分子量	17 kDa including tags
氨基酸	25 to 167
标签	His tag C-Terminus
额外的序列信息	(NP_005009.2)

技术指标

Our **Abpromise guarantee** covers the use of **ab174035** in the following tested applications.

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

应用	HPLC
	SDS-PAGE

Functional Studies

ELISA

形式

Lyophilized

补充说明

For long term storage, store at lyophilized state at -20°C or lower. After reconstitution, store under sterile conditions for 3 months at -70°C or 12 months at 4-8°C at lyophilized state. Avoid repeated freeze-thaw cycles.

制备和贮存

稳定性和存储

Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -20°C or -80°C. Please see notes section.

pH: 7.40

Constituents: PBS, 5% Trehalose

The formulation is lot specific. Please contact our Technical Support team for details

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

复溶

This information is lot specific. Please contact our Technical Support team for details

常规信息

功能

Possible cell death inducer, in association with other factors.

疾病相关

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.

序列相似性

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

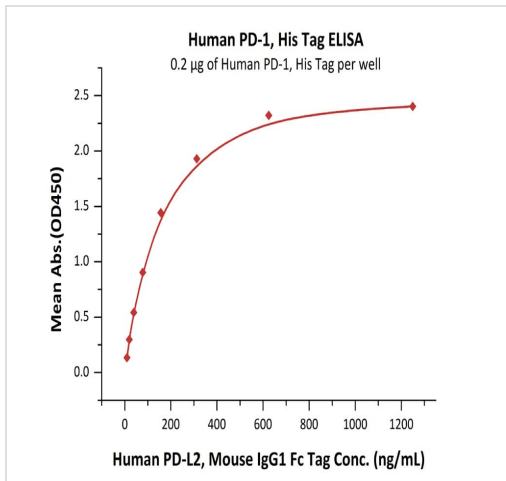
发展阶段

Induced at programmed cell death.

细胞定位

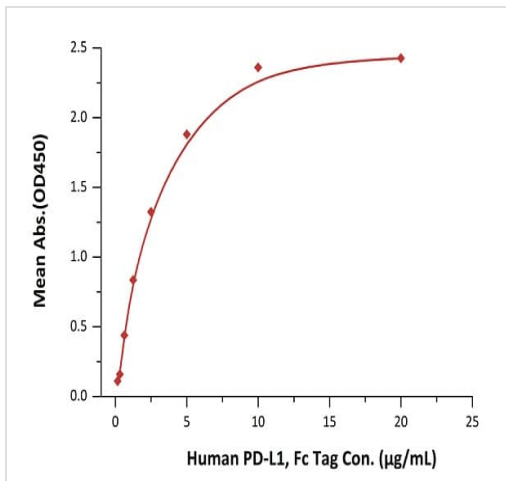
Membrane.

图片



Immobilized ab174035 at 2 µg/mL (100 µL/well) can bind Human PD-L2, Mouse IgG1 Fc Tag with a linear range of 10-156 ng/mL.

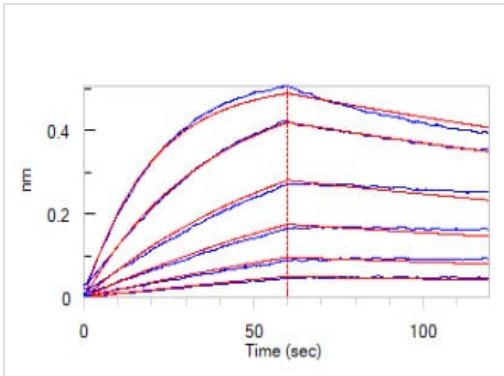
ELISA - Recombinant human PD1 protein (Active)
(ab174035)



Immobilized ab174035 at 0.2µg/mL (100 µL/well) binds Human PD-L1, Fc Tag.

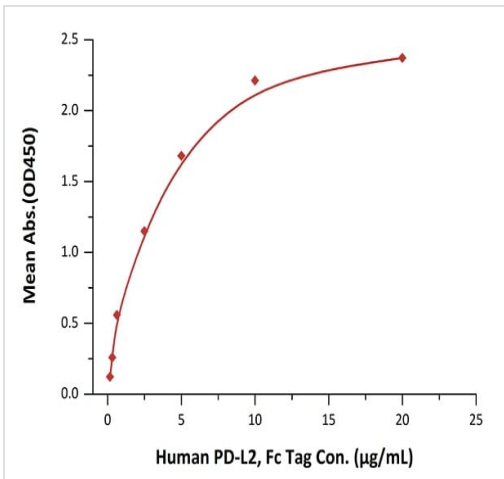
Linear range of 0.31-1.25 µg/mL (QC tested).

Functional Studies - Recombinant human PD1
protein (ab174035)



Functional Studies - Recombinant human PD1 protein (Active) (ab174035)

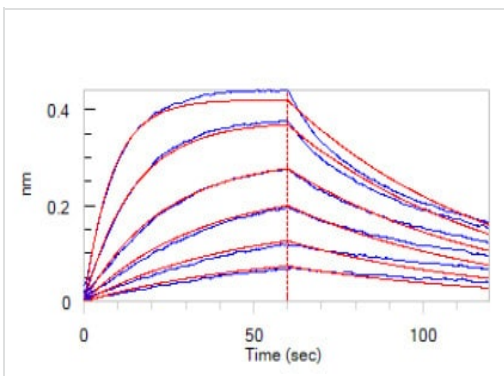
Loaded Human PD-1 (His Tag) (HPLC verified) on HIS1K Biosensor can bind Human PD-L2 (Fc Tag) (HPLC verified) with an affinity constant of 16.3 nM as determined in bli assay (ForteBio Octet Red96e) (QC tested).



Functional Studies - Recombinant human PD1 protein (ab174035)

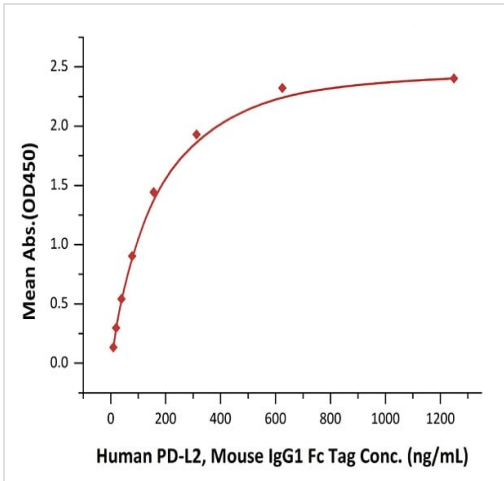
Immobilized ab174035 at 0.2 µg/mL (100 µl/well) binds Human PD-L2, Fc Tag.

Linear range of 0.16-2.5 µg/mL (QC tested).



Functional Studies - Recombinant human PD1 protein (Active) (ab174035)

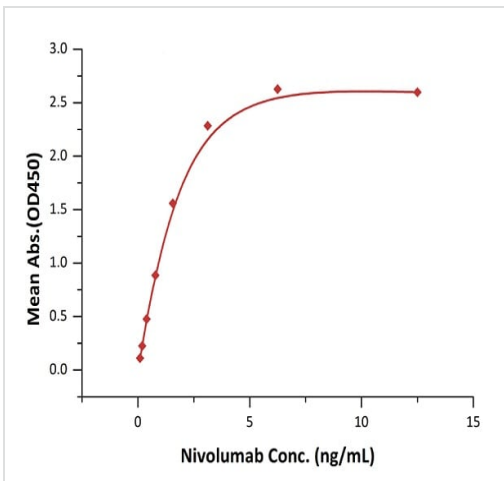
Loaded Human PD-1 (His Tag) (HPLC verified) on HIS1K Biosensor can bind Human PD-L1 (Fc Tag) (HPLC verified) with an affinity constant of 38.9 nM as determined in bli assay (ForteBio Octet Red96e) (QC tested).



Immobilized ab174035 at 2 µg/mL (100 µL/well) binds Human PD-L2, Mouse IgG1 Fc Tag.

Linear range of 10-156 ng/mL (Routinely tested).

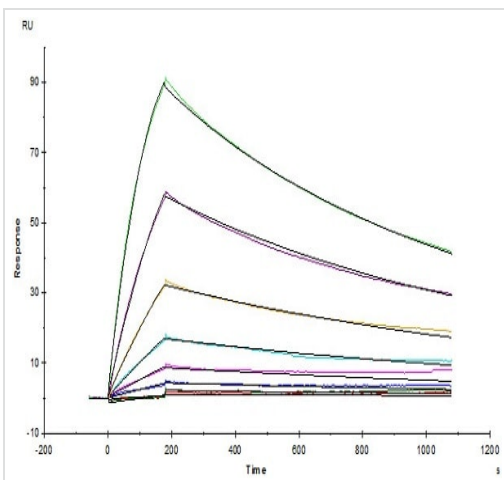
Functional Studies - Recombinant human PD1 protein (ab174035)



Immobilized ab174035 at 2 µg/mL (100 µL/well) binds Nivolumab.

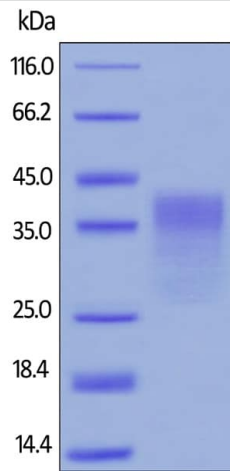
Linear range of 0.1-3 ng/mL (Routinely tested).

Functional Studies - Recombinant human PD1 protein (ab174035)



Opdivo(Nivolumab), captured on CM5 chip via anti-human IgG Fc antibodies surface, binds ab174035 with an affinity constant of 4.94 nM, as determined in an SPR assay (Biacore T200) (Routinely tested).

Functional Studies - Recombinant human PD1 protein (ab174035)

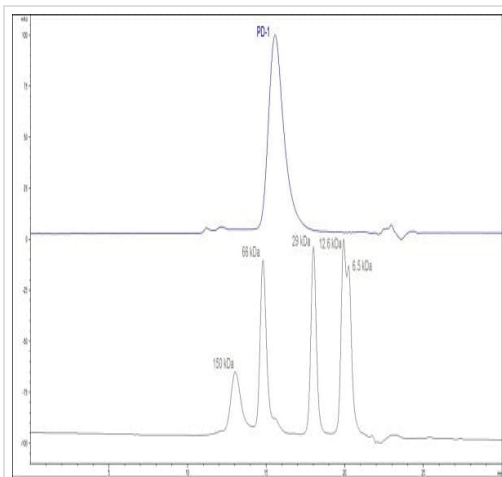


SDS-PAGE - Recombinant human PD1 protein
(ab174035)

Reduced ab174035 on SDS-PAGE, stained overnight with Coomassie Blue.

The purity of the protein is greater than 95%.

The protein migrates as 31-44kDa under reducing conditions, due to glycosylation.



HPLC - Recombinant human PD1 protein
(ab174035)

The purity of ab174035 was greater than 90%, as determined by SEC-HPLC.

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