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Data Sheet

PD-1 (PDCD1), Biotin-labeled

Human, Recombinant, Fc fusion protein with C-terminal Avi-tag™
Catalog #: 71109-2 "500ug"
Lot #: 161130
Conc.:1.36 mg/ml when reconstituted as below

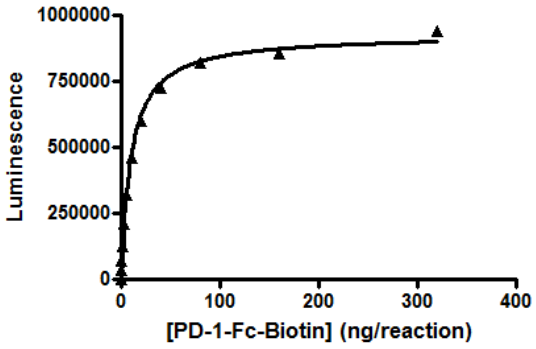
Formulated in: Reconstitute in 37 µl dH2O containing 20% glycerol to reach 8 mM Phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol.
Format/Appearance: Lyophilized protein in PBS solution
Stability: At least 6 months at –80°C. *Avoid freeze/thaw cycles. Protein may be diluted to ≥ 100 µg/ml in PBS + glycerol and stored at -80°C.*
References:

1. Shinohara, T., *et al., Genomics.* 1994 Oct;**23(3)**:704-6.
2. James, E.S., *et al., Genes Immun.* 2005 Aug;**6(5)**:430-7.

Description:
Human secreted programmed cell death 1 (PD-1)-Fc fusion protein, also known as, PDCD1, SLEB2, CD279 and HPD-L, GenBank Accession No. NM_005018, a.a 25-167, fused at the C-terminus to the Fc portion of human IgG1, with C-terminal Avi-tag™ expressed in a HEK293 cell expression system and enzymatically biotin-labeled using Avi-tag™ technology. MW = 45 kDa. This protein runs at a higher M.W. by SDS-PAGE due to glycosylation.
Assay Description: Coated wells in assay plate with either PBS (No Coat) or 100 ng/well of PD-L1-Fc in 50 µl PBS (overnight at 4 deg). Mixed various concentrations of PD-1-Fc-biotin (0-320 ng/reaction) in assay buffer and added to assay plate wells. Incubated for 2h at RT. Detected binding with Strep-HRP generated luminescence.
Application:
Useful for the study of protein-protein interaction and *in vitro* and *in vivo* protein function.

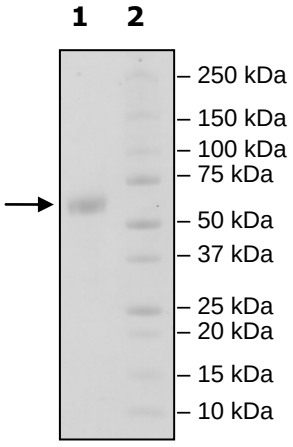
Quality Assurance

PD-1: PD-L1 Interaction



4-20% SDS-PAGE
Coomassie staining

Lane 1: 3µg PD-1
Lane 2: Protein Marker
MW: 45 kDa+glycans
Purity: ≥90%



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Sequence:

LDSPDRPWNPPTFSPALLVVTEGDNATFTCSFSNTSESFVLNWYRMSPSNQTDKLAA FPEDRSQPGQDCRFRVTQLPNGRDFHMSVVRARRNDSGTYLCGAISLAPKAQIKESL RAELRVTERRAEVPTAHPSPSPRPAGQFQIEGRMDPKSCDKTHTCPPCPAPELLGGP SVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSR EEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVD KSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGKGGGLNDIFEAQKIEWHE

Black: PD-1 (a.a. 25-167)
Green: Linker
Red: Fc of human IgG1 (a.a. 100-330)
Blue: Avi-tag™

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