PERFORMANCE DATA SHEET
2114

Human CD273(B7-DC, PD-L2)-muIg *Fusion Protein**

For maximal recovery of contents
please quick spin vial before opening

CATALOG#: 573-820
QUANTITY: 25 µg **CONCENTRATION: 0.5 mg/ml**

Molecular Structure: A soluble fusion protein consisting of the Mature extracellular region of CD273EC:

(20)**lftvtvpkelyiiehgsnvtlecnfdtgshvnlgaitaslqkvendtsphreratlleeqlplgkasfhipqvqvrdegqyqciiiygvawdykyltlkvk asyrkinthilkvpetdeveltcqatgyplaevswpnvsvpantshsrtpeglyqvtsvlrlkpppgrnfscvfwnthvreltlasidlqsqmeprthpt** (220)

Linker +Murine IgG2a Hinge + Fc :

(221)**gteprgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvvdvseddpdvqiswfvnnvevhtaqtqthredynstlrvvsalpi qhqdwmsgkefkckvnnkdlpapiertiskpkgsvrapqvyvlpppeeemtkkqvtvtcmvtdfmpediyvewtnngktelnykntepvldsdgs yfmysklgvekknwvernsyscsvvheglhnhhttksfsrtpg**(455)

Predicted monomeric (non glycosylated) molecular weight: 49 kd. The molecule is dimeric and runs at ~135 kd in SDS-PAGE under native conditions, and ~74 kd reduced.

Transfectant Cell Line: CHO

INFORMATION: CD273 (B7-DC, PCDL-2, Programmed cell death ligand 2, Butyrophilin-like protein) is a type I surface molecule with homology to CD80, CD86, CD274. It is expressed primarily by Dendritic cells.and provides a stimulatory signal to CD279 (PD-1, Programmed Death molecule) which serves an important immunoregulatory role by down regulating T cell response. CD273 binds to CD279(PD-1) with a 2- 6 fold higher affinity than CD274(2).
Recombinant CD273-muIg binds to recombinant CD279 in EIA.
References: 1) E N Rozali, W J Lesterhuis, et al. (2012) *Clin Develop Immunol* **2012**: 656340. 2) P Youngnak, H Konozo, et al. (2003) *Biochemical and Biophysical Research Communications* **307**(3): 672-677.

STORAGE CONDITIONS: ***Store at 2 - 5^{O}C***. Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 6 months after shipping date when stored as recommended.
Ship Date:_____

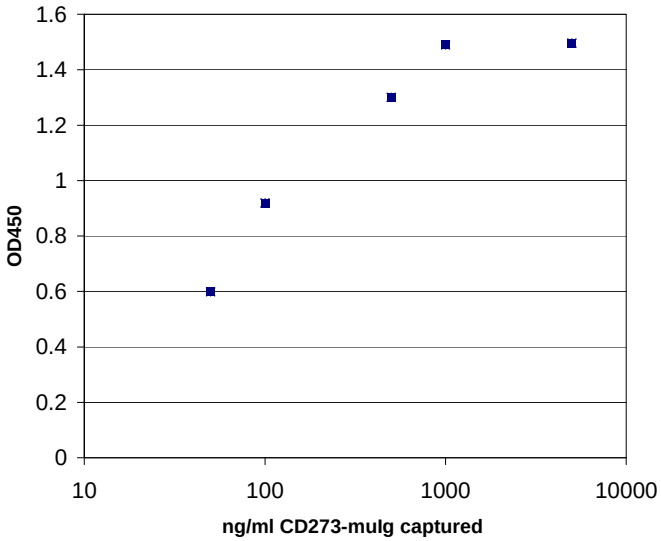
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl. Product was 0.1 µm filtered and vialed under aseptic conditions.

PRODUCTION: Recombinant protein from (low FBS containing) tissue culture supernatant of transfectants was purified using affinity and size exclusion chromatography. Purity was >90% by SDS-PAGE.

PERFORMANCE: N-terminal sequence was as predicted: LFTVT
Recombinant CD273-muIg was detectable at **50 ng/ml** in EIA using Goat-anti-Mouse-IgG coated plate for capture and recombinant CD279 /Biotin followed by SA/HRP as detection reagents.

Research use only. Not for use in Diagnostic procedures.

GAM captured CD273-muIg detected by CD279-muIg/Biotin + SA/HRP



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