PERFORMANCE DATA SHEET
2240

For maximal recovery of contents please quick spin vial before opening

Human CD273(B7-DC,)-muIg/Biotin *Fusion Protein**

CATALOG#: 573-030
QUANTITY: 25 μg **CONCENTRATION: 0.5 mg/ml**

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:_____

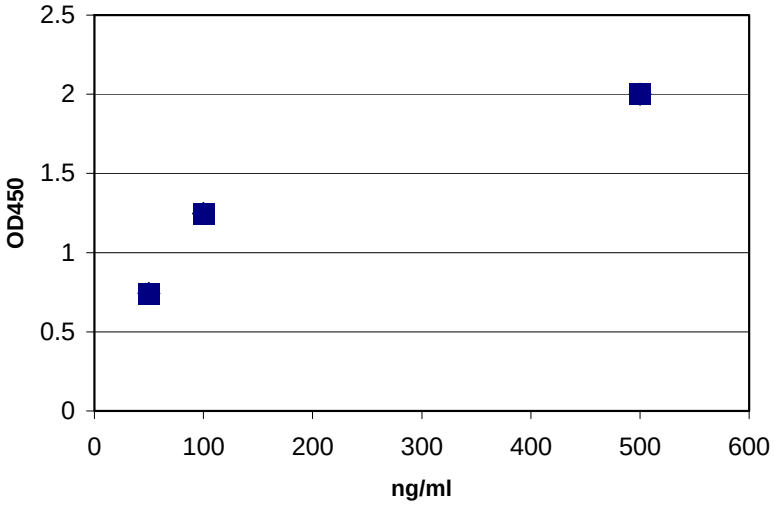
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN_3 (as a preservative).

PRODUCTION: Human CD274-muIg fusion protein was Protein A purified from (low FBS containing) tissue culture supernatant of CHO transfectants, and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate by desalting column.

PERFORMANCE: CD273-muIg/Biotin is functional in EIA as a detection reagent binding to plate-coated recombinant CD279(PD-1). Streptavidin/HRP was used as a secondary detector and TMB/H2O2 as a chromagen/substrate.

**Research use only. Not for use in Diagnostic procedures*

EIA Binding of Reccombinant CD273(B7-DC)-muIg/Biotin +SA/HRP to plate-coated CD279(PD-1)-muIg



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