10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CD86 Reference Antibody (Ludwig-Maximilians U. anti-CD86 CAR)

Catalog # APR11513

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P42081
Reactivity	Human
Clonality	Monoclonal
Isotype	ScFv-C6His
Calculated MW	37682

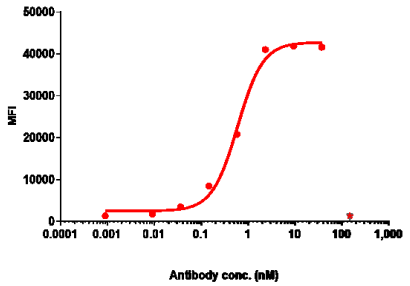
Additional Information

Target/Specificity	CD86
Expression system	CHO

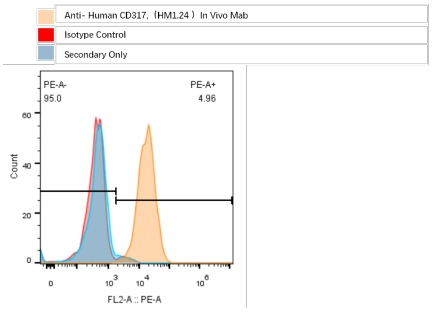
Protein Information

Name	CD86
Synonyms	CD28LG2
Function	Costimulatory molecule that belongs to the immunoglobulin superfamily that plays an important role in T-lymphocyte activation (PubMed:12196291, PubMed:7694363). Acts as the primary auxiliary signal augmenting the MHC/TCR signal in naive T-cells by acting as a ligand for the CD28 receptor which is constitutively expressed on the cell surface of T-cells (PubMed:12196291, PubMed:7694363). May play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T-cells within 24 hours after activation (PubMed:7527824). Also involved in the regulation of B cells function, plays a role in regulating the level of IgG(1) produced. Upon CD40 engagement, activates NF-kappa-B signaling pathway via phospholipase C and protein kinase C activation (By similarity). Also acts as an inhibitor of T-cell activation by acting as a ligand for CTLA4, a decoy receptor, thereby blocking CD28-mediated T-cell priming (PubMed:11279501).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed on the surfaces of antigen-presenting cells.

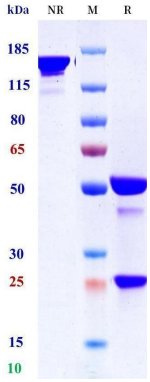
Images



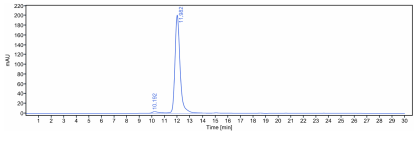
Human CD317 -expressing Hela cells were stained with Anti- Human CD317,(HM1.24)In Vivo Mab, with isotype and secondary-only controls. Flow analysis showed specific binding of the antibody, with an EC50 of 0.545 nM.



Human CD317 -expressing Hela cells were stained with Anti- Human CD317,(HM1.24)In Vivo Mab. Compared to the isotype control and secondary-only control, a CD317 -positive population is apparent.



Anti- Human CD317,(HM1.24)In Vivo Mab on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti- Human CD317,(HM1.24)In Vivo Mab is 97%, determined by SEC-HPLC.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.