

Biotin Human B7-2 (CD86) Protein (C-Fc-Avi)

Catalog Number:	817503, 817504
Size:	25 ug, 100 ug
Target Name:	CD86, B7-2, B70, CD28LG2
Regulatory Status:	RUO

PRODUCT DETAILS

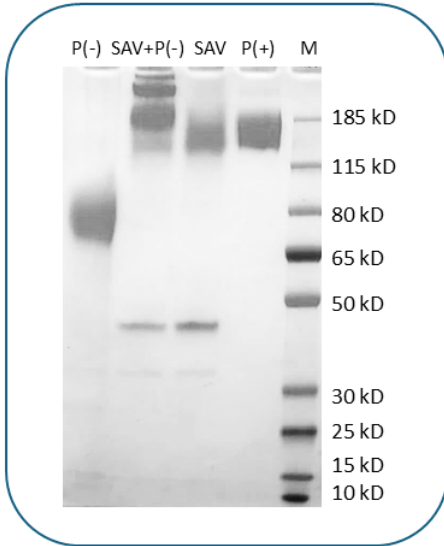
Application:	ELISA, BLI
Format:	Liquid, Biotinylated
Expression Host:	CHO
Species:	Human
Sources:	Recombinant Human B7-2 (CD86) (Leu20-Pro247) with C-terminus Fc-Avi-tag is expressed in CHO cell. This protein was site-specifically labeled with Biotin by BirA ligase.
Accession Number:	P05408
Molecular Weight:	The protein has a predicted molecular weight of 54.2 kDa. Under DTT-reducing conditions, it migrates at approximately 75 kDa on SDS-PAGE.
Affinity Tag:	C-Fc-Avi
Purity:	>95% based on SDS-PAGE under reducing condition
Formulation:	1xPBS buffer, pH7.4, 0.22 µm filtered
Endotoxin level:	Not tested
Protein Concentration:	25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.
Storage and Handling:	Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

BACKGROUND INFORMATION

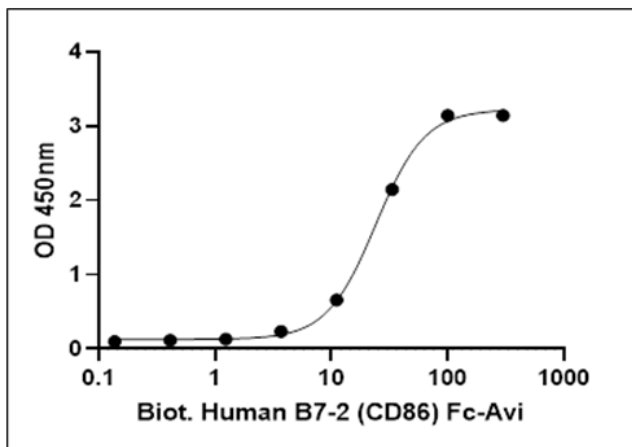
CD86 (B7-2) is a member of the immunoglobulin superfamily, expressed predominantly as a monomer on cell surfaces, and interacts with co-stimulatory receptors CD28 and CTLA-4 on T cells. This interaction regulates T cell activation, tolerance, cytokine production, and the generation of cytotoxic T lymphocytes (CTL). CD86 plays a critical role in promoting B and T helper cell interactions, supporting B cell proliferation and IgG secretion, particularly in B cell lymphomas. It also contributes to the development of a mature antigen-presenting cell (APC) repertoire, enhancing APC function and survival. CD86 is involved in chronic hemodialysis, allergic pulmonary inflammation, arthritis, and antiviral responses, positioning it as a potential target for immune

therapies.

PRODUCT DATA



Human B7-2 (CD86) (C-Fc-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under reducing (P+) and non-reducing (P-) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of Human CD86 protein exceeds 90%.



Human CTLA4 (C-Fc) is coated at 2 ug/mL (200 ng/well). Biotinylated Human B7-2 (CD86) (C-Fc-Avi) can bind human CTLA-4 in the dose dependent manner with ED50 in the range of 15-50 ng/mL.

This product is supplied subject to the terms and conditions at www.innocyto.com/web/terms.php and may only be used as provided in the stated terms. Products are for Research Use Only.