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Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab)

Recombinant Antibody
Catalog # APR10249

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q9NZQ7
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	33275

Additional Information

Target/Specificity	B7-H1 / PD-L1 / CD274
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Protein Information

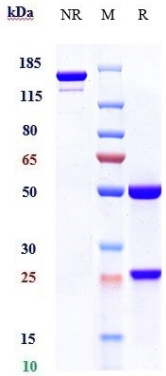
Name	CD274 (HGNC:17635)
Function	Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:11015443, PubMed:28813410, PubMed:28813417, PubMed:31399419). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:11015443, PubMed:28813410, PubMed:28813417, PubMed:36727298). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:10581077). Can also act as a transcription coactivator: in response to hypoxia, translocates into the nucleus via its interaction with phosphorylated STAT3 and promotes transcription of GSDMC, leading to pyroptosis (PubMed:32929201).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Early endosome membrane; Single-pass type I membrane protein. Recycling endosome membrane; Single-pass type I membrane protein. Nucleus. Note=Associates with CMTM6 at recycling endosomes, where it is protected from being targeted for lysosomal degradation (PubMed:28813417). Translocates to the

nucleus in response to hypoxia via its interaction with phosphorylated STAT3 (PubMed:32929201). [Isoform 2]: Endomembrane system; Single-pass type I membrane protein

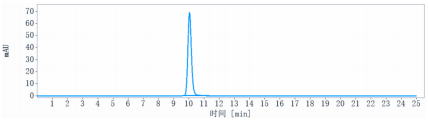
Tissue Location

Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes.

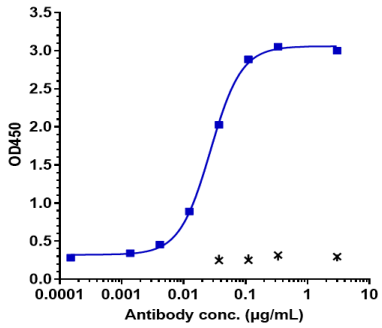
Images



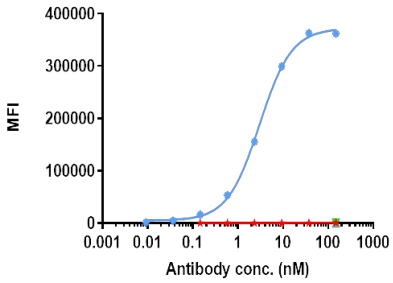
Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 90%.



The purity of Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) is more than 95%, determined by SEC-HPLC.



Immobilized human PD-L1 His at 2 ug/mL can bind Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab), EC50=0.02704 ug/mL.



Human B7-H1 / PD-L1 / CD274 CHO-K Cell Line were stained with Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, The EC50 is 3.03 nM.

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