

**Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab)
Recombinant Antibody
Catalog # APR10249****Specification****Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) - Product Information**

Application	FC, Kinetics, Animal Model
Primary Accession	O9NZQ7
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	145 KDa

Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) - Additional Information**Target/Specificity**
B7-H1 / PD-L1 / CD274**Endotoxin**
< 0.001EU/ µg,determined by LAL method.**Conjugation**
Unconjugated**Expression system**
CHO Cell**Format**
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.**Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) - 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

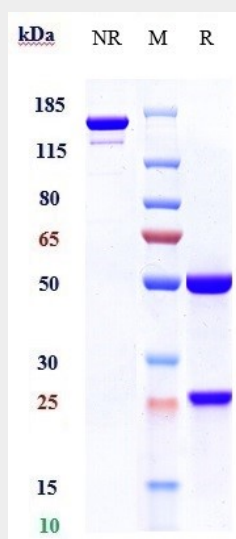
Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes.

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

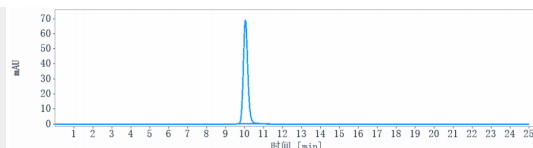
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

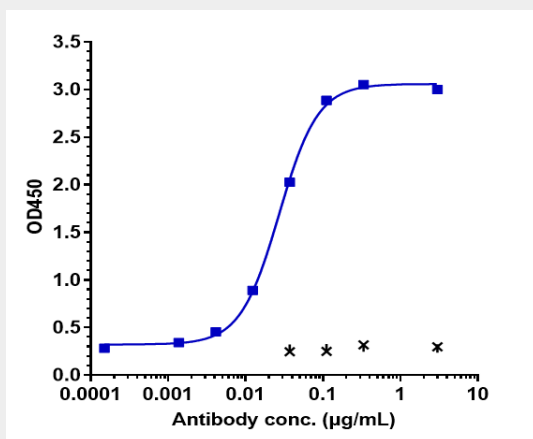
Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) - Images



Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. 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 µg/mL can bind Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (sugemalimab) $EC_{50} = 0.02704 \mu\text{g/mL}$