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

Recombinant Antibody Catalog # APR10202

Product Information

Application FC, Kinetics, Animal Model

Primary Accession Q9NZQ7

Reactivity Human, Mouse, Rat, Rabbit, Dog

Clonality Monoclonal

Isotype IgG1 **Calculated MW** 33275

Additional Information

Target/Specificity B7-H1 / PD-L1 / CD274

Endotoxin

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.

Protein Information

Name CD274 (<u>HGNC:17635</u>)

Function Plays a critical role in induction and maintenance of immune tolerance to

self (PubMed:<u>11015443</u>, PubMed:<u>28813410</u>, PubMed:<u>28813417</u>,

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

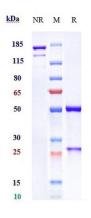
membrane; Single-pass type I membrane protein. Recycling endosome membrane; Single-pass type I membrane protein. Nucleus. Note=Associates with CMTM6 at recycling endosomes, where it is protected from being targeted for lysosomal degradation (PubMed:28813417). Translocates to the

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

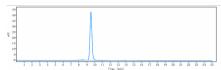
Tissue Location

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.

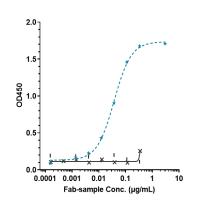
Images



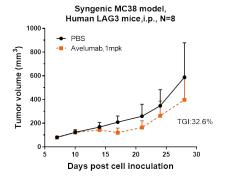
Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (avelumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (avelumab)is more than 98.22% ,determined by SEC-HPLC.



Immobilized human PD L1 FC at 2 μg/mL can bind Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (avelumab),EC50=0.03725 μg/mL



Avelumab inhibited the tumor growth of MC38 on hLAG3 mice. The result showed significant anti-tumor effects, with an tumor inhibition rate (TGI) of 32.6% at 1 mpk at D28.

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