

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

Recombinant Antibody Catalog # APR10202

Product Information

Application	FC, Kinetics, Animal Model
Primary Accession	<u>Q9NZQ7</u>
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: <u>31399419</u>). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed: <u>11015443</u> , PubMed: <u>28813410</u> , PubMed: <u>28813417</u> , PubMed: <u>36727298</u>). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed: <u>10581077</u>). 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: <u>32929201</u>).
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

Tissue Location	nucleus in response to hypoxia via its interaction with phosphorylated STAT3 (PubMed:32929201). [Isoform 2]: Endomembrane system; Single-pass type I membrane protein 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	
kDa NR M R 185 115 80 65 50	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%

30 25

15 10

2.0-

1.5

05400 1.0

0.5

0.0

1000

800

600 400

200

0+ 5

Tumor volume (mm³)

0.0001 0.001

PBS

10

Avelumab, 1mpk

15

Days post cell inoculation

20

25

0.01

Fab-sample Conc. (µg/mL)

Syngenic MC38 model, Human LAG3 mice,i.p., N=8

0.1 1

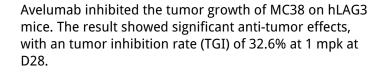
10

TGI:32.6%

30

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



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