

**Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (durvalumab)  
Recombinant Antibody  
Catalog # APR10625****Specification**

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**Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (durvalumab) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">O9NZQ7</a>
Reactivity	Cynomolgus, Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	146.32 KDa

**Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (durvalumab) - 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 (durvalumab) - Protein Information**

**Name** CD274 ([HGNC:17635](#))

**Function**  
Plays a critical role in induction and maintenance of immune tolerance to self (PubMed: <a href="http://www.uniprot.org/citations/11015443" target="\_blank">11015443</a>, PubMed: <a href="http://www.uniprot.org/citations/28813410" target="\_blank">28813410</a>, PubMed: <a href="http://www.uniprot.org/citations/28813417" target="\_blank">28813417</a>, PubMed: <a href="http://www.uniprot.org/citations/31399419" target="\_blank">31399419</a>). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed: <a href="http://www.uniprot.org/citations/11015443" target="\_blank">11015443</a>, PubMed: <a href="http://www.uniprot.org/citations/28813410" target="\_blank">28813410</a>, PubMed: <a href="http://www.uniprot.org/citations/28813417" target="\_blank">28813417</a>, PubMed: <a href="http://www.uniprot.org/citations/36727298" target="\_blank">36727298</a>). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed: <a

href="http://www.uniprot.org/citations/10581077" target="\_blank">10581077</a>). 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:<a href="http://www.uniprot.org/citations/32929201" target="\_blank">32929201</a>).

#### 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

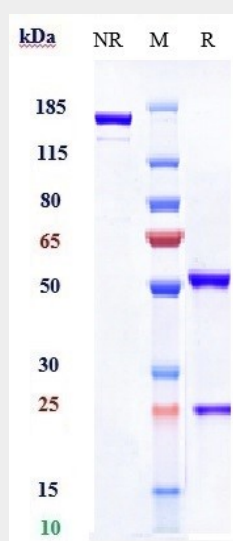
Highly expressed in the heart, skeletal muscle, placenta and lung. Weakly expressed in the thymus, spleen, kidney and liver. Expressed on activated T- and B-cells, dendritic cells, keratinocytes and monocytes.

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

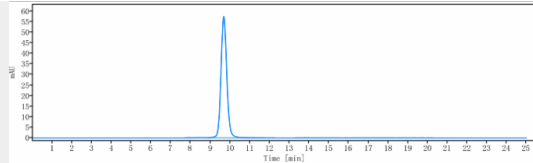
Provided below are standard protocols that you may find useful for product applications.

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

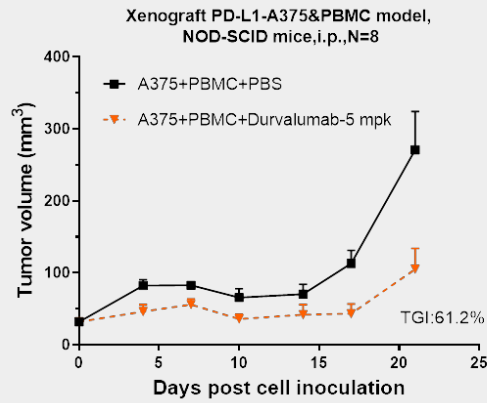
### Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (durvalumab) - Images



Anti-B7-H1 / PD-L1 / CD274 Reference Antibody (durvalumab) 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 (durvalumab) is more than 100% ,determined by SEC-HPLC.



Durvalumab inhibited the tumor growth of A375 on NOD.SCID mice. The result showed significant anti-tumor effects, with an tumor inhibition rate (TGI) of 61.2% at 5 mpk at D22.