

## Product datasheet

# Recombinant human CD276 protein (Active) ab214154

### Description

<b>Product name</b>	Recombinant human CD276 protein (Active)	
<b>Biological activity</b>	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells.	
<b>Purity</b>	> 95 % SDS-PAGE.	
<b>Endotoxin level</b>	< 0.010 Eu/μg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<a href="#">Q5ZPR3-2</a>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	LE VQVPEDPVVA LVGTDATLCC SFSPEPGFSL AQLNLIWQLT DTKQLVHSFA EGQDQGSAYA NRTALFPDLL AQGNASRLQ RVRVADEGSF TCFVSIRDFG SAAVSLQVAA PYSKPSMTLE PNKDLRPGDT VTITCSSYRG YPEAEVFWQD GQGVPLTGNV TTSQMANEQG LFDVHSVLRV VLGANGTYSC LVRNPVLQQD AHGSVTITGQ PMTFP	
<b>Predicted molecular weight</b>	35 kDa	
<b>Amino acids</b>	29 to 245	
<b>Additional sequence information</b>	Corresponding to the extracellular domain of human CD276 Isoform 2 [B7-H3]	

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab214154** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies
	SDS-PAGE
<b>Form</b>	Lyophilized

### Preparation and Storage

<b>Stability and Storage</b>	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.</p> <p>Constituent: 99% PBS</p> <p>Lyophilized from 0.2µm-filtered solution</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
<b>Reconstitution</b>	<p>Reconstitute 50µg vial with 100 µl sterile water to a concentration of 0.5mg/ml. Add 1X PBS to the desired protein concentration. 1X PBS containing at least 0.1% BSA should be used for further dilutions. Working aliquots are stable for up to 3 months when stored at -20°C.</p>
<b>General Info</b>	
<b>Function</b>	<p>May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling.</p>
<b>Tissue specificity</b>	<p>Ubiquitous but not detectable in peripheral blood lymphocytes or granulocytes. Weakly expressed in resting monocytes. Expressed in dendritic cells derived from monocytes. Expressed in epithelial cells of sinonasal tissue. Expressed in extravillous trophoblast cells and Hofbauer cells of the first trimester placenta and term placenta.</p>
<b>Sequence similarities</b>	<p>Belongs to the immunoglobulin superfamily. BTN/MOG family.</p> <p>Contains 2 Ig-like C2-type (immunoglobulin-like) domains.</p> <p>Contains 2 Ig-like V-type (immunoglobulin-like) domains.</p>
<b>Cellular localization</b>	<p>Membrane.</p>

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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