AssayGenie 🗳

IVMB0522

Product Info	rmation					
Product SKU:	IVMB0522	Clone :	ABBV-155	Target:	CD276	
Size:	500 µg			lsotype:	Human lgG1ĸ	
Additional In	formation					
Reactivity:	Human			Host Species	s : Human	
Antibody Type	e: Biosimilar Recc	Biosimilar Recombinant Human Monoclonal Antibody		Expression H	lost: HEK-293 Cells	

Immunogen Information

Background: CD276, also known as B7 homolog 3 protein (B7-H3), is a member of the B7 superfamily and acts as an immune checkpoint molecule and a costimulatory/coinhibitory immunoregulatory protein¹. CD276 influences innate and adaptive immunity, regulates the aggressiveness of cancer cells, and is thought to play an important role in tumor development and cancer immunity. CD276 has been studied in many cancers, including breast, lung, ovarian, brain, gastric, and squamous cell carcinoma.

Human CD276 exists as either a soluble isoform or as a ~45–66 kDa type I transmembrane protein that is composed of an extracellular domain, a transmembrane domain, and a short intracellular domain¹. Soluble CD276 is produced by cleavage from the cell surface or via alternative intron splicing and has been found in the secretomes of exosomes and other extracellular vesicles.

In normal human tissues, CD276 mRNA is widely and abundantly expressed but protein abundance is low¹. miR-124 is thought to cause translational repression of CD276 by targeting its 3'-UTR, while other miRNAs are known to affect CD276 expression. In tumor cells, CD276 mRNA and protein are abundant, and its presence is correlated with worsened prognosis, poor survival, recurrence rate, and enhanced invasive and migratory properties¹, ². CD276 is known to act as a T cell inhibitor that promotes tumor proliferation and invasion and is an immune checkpoint molecule in the epithelial mesenchymal transition pathway².



	Blocking CD276 with monoclonal antibodies reduces tumor growth and prolongs survival
	in mouse models of various cancers ¹ , ² . Additionally, a first-in-human study shows that
	monotherapy with mirzotamab clezutoclax, a first-in class antibody drug conjugate
	composed of mirzotamab conjugated via a solubilizing linker to a B cell lymphoma – extra
For data and a large h	long (BCL-XL) inhibitor, has potential anti-tumor activity ³ , ⁴ .
Endotoxin Level:	< 1.0 EU/mg as determined by the LAL method
Applications:	ELISA
Synonyms:	ABBV-155, anti-CD276, B7-H3, B7H3
Antigen Distribution:	CD276 is weakly expressed on activated lymphocytes, macrophages, dendritic cells, nasal
	and airway epithelial cells, and osteoblasts. A soluble form is secreted by monocytes,
	dendritic cells, and activated T cells. CD276 can be abundant in tumor cells.
Immunogen:	Human CD276/B7-H3
Formulation :	This biosimilar antibody is aseptically packaged and formulated in 0.01 M phosphate
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