

## Product datasheet for **TA389059**

### CD276 Mouse Antibody [Clone ID: M045]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	M045
Applications:	ICC, IP, WB
Recommended Dilution:	<b>WB:</b> 1:1000 <b>ICC:</b> 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M045) was generated from a recombinant protein that included the extracellular region of human B7-H3 protein.
Specificity:	Clone M045 mouse monoclonal antibody detects a 100-120 kDa* protein on SDS-PAGE "Native" or denatured immunoblots of human LNCaP, MCF-7, NCI-H28, A431, and MDA-MB-231 carcinomas. The antibody detects B7-H3 in membranes and cytoplasm in MCF7 cell after immunocytochemical labeling. The antibody works for western blot, immunoprecipitation, immunocytochemistry, and ELISA capture.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN <sub>3</sub> and 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	100-120
Database Link:	<a href="#">Q5ZPR3</a>



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**Background:**

B7 homolog 3 (B7-H3, CD276) is a member of the B7 family of cell surface ligands that regulate T cell activation and immune responses. B7-H3 is a membrane protein with an extracellular region that includes two Ig-like V-type domains and two IgG-like C2-type domains, and a short intracellular domain. B7-H3 is a regulatory molecule for immune reactions, such as T cell proliferation and IFN- $\gamma$  production. In colon cancers, B7-H3 inhibits T-cell cytotoxicity, and blocking B7-H3 function enhances T-cell cytotoxicity toward cancer cells. B7-H3 is expressed by antigen presenting cells, activated T cells, and a few normal tissues, including placenta and prostate. In cancer, B7-H3 is expressed in various tumor types including prostate, breast, colon, lung, and gastric cancers. The B7-H3 expression level correlates with tumor growth, invasion, metastasis, malignant stage, and recurrence rate. The inhibition or blockade of B7-H3 function could be an important immunotherapeutic approach for several types of cancer

**Note:**

Protein G purified tissue culture supernatant.