www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

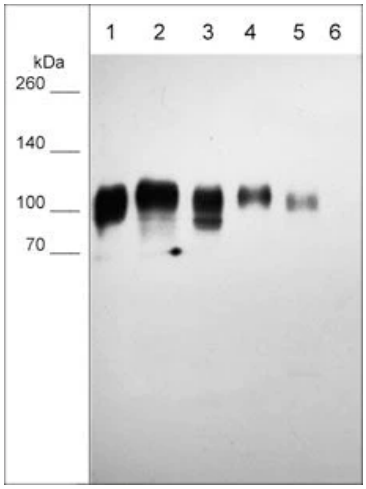
Anti-B7-H3/CD276 (Extracellular region) Antibody

Product Details

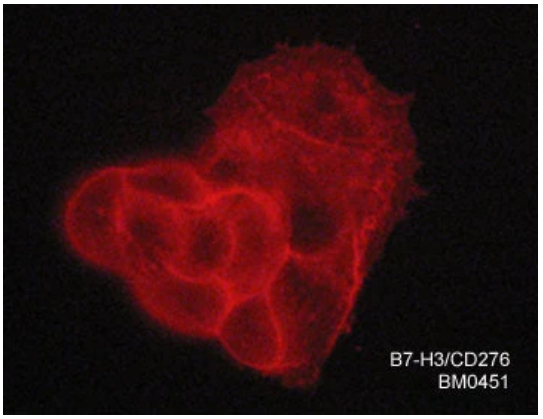
Available Variants	100 µL (SKU:BM0451)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M045
Gene Name	CD276
Host Species	Mouse
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IP, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100 IP: 1:100
Species Reactivity	Human
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.
Molecular Weight	100-120
Quality Control	Western blots performed on each lot.

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.
UniProt ID	Q5ZPR3 UniProt Summary: 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.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	80381

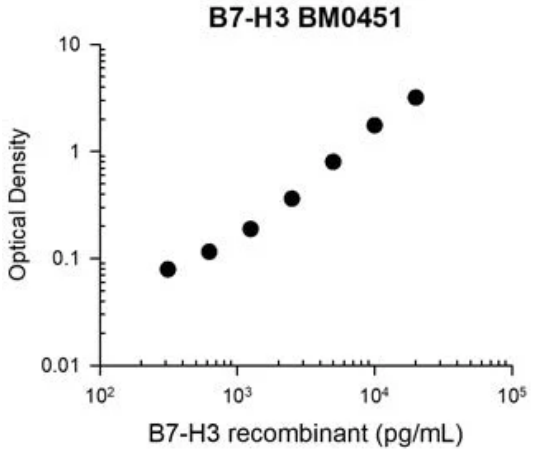
Product Images



Western blot of human LNCaP prostate adenocarcinoma (lane 1), MCF-7 breast ductal carcinoma (lane 2), NCI-H28 pleural mesothelioma (lane 3), A431 epidermoid carcinoma (lane 4), MDAMB-231 breast carcinoma (lane 5) and Jurkat T-cell line (lane 6). The blot was probed with mouse monoclonal anti-B7-H3/CD276 (BM0451) at 1:500.



Immunocytochemical labeling of B7-H3 in aldehyde fixed human MCF-7 breast ductal carcinoma cells. The cells were labeled with mouse monoclonal anti-B7-H3/CD276 (BM0451). The antibody was detected using goat anti-mouse DyLight® 594.



Representative Standard Curve using mouse monoclonal anti-B7-H3 (BM0451) for ELISA capture of human recombinant B7-H3 extracellular region with a His-tag. Captured protein was detected by suitable anti-His-tag antibody followed by appropriate secondary antibody HRP conjugate.