

CD276 / B7-H3 Antibody

Mouse Monoclonal Antibody [Clone B7H3/4312]

Catalog No	Format	Size
80381-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
80381-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
80381-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

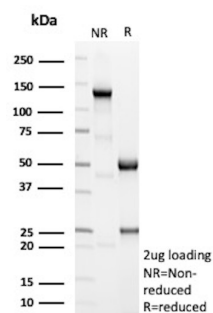
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

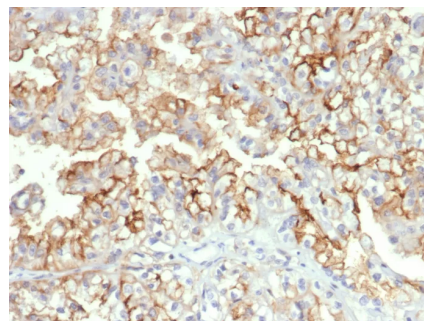
Clone	B7H3/4312
Gene Name	CD276
Immunogen	Recombinant fragment (around aa100-300) of human CD276 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	B7-H3 isoforms: 57/34/53/57 kDa; glycosylated B7-H3: 90-110 kDa
Cellular Localization	Cytoplasm. Cell surface.
Species Reactivity	Human
Positive Control	hepatocellular carcinoma or lung carcinoma. Human tonsil Placenta

*Optimal dilution for a specific application should be determined.

Product Images for CD276 / B7-H3 Antibody



SDS-PAGE Analysis of Purified CD276 Mouse Monoclonal Antibody (B7H3/4312). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human kidney carcinoma stained with CD276 / B7-H3 Mouse Monoclonal Antibody (B7H3/4312) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

Specificity & Comments

T cell activation and immune function are regulated by the innate immune system through positive and negative costimulatory molecules. One such molecule, B7-H3 (B7-homolog 3, also designated B7RP-2) belongs to the B7 immunoglobulin superfamily. Soluble B7-H3 binds a putative receptor on activated T-cells that is distinct from CD28, CTLA-4, ICOS and PD-1. Widely expressed on nonlymphoid tissues, B7-H3 costimulates proliferation of both CD4+ and CD8+ T cells. The ability of B7-H3 to stimulate Th1 and cytotoxic-T cell responses suggest that it may have antitumor activity. B7-H3 interactions may play a role in regulating cell-mediated immune responses against cancer, implicating B7-H3 as a potential therapeutic tool.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.
