CD276 / B7-H3 Antibody

Mouse Monoclonal Antibody [Clone B7H3/4345]

Catalog No	Format	Size
80381-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
80381-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
80381-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

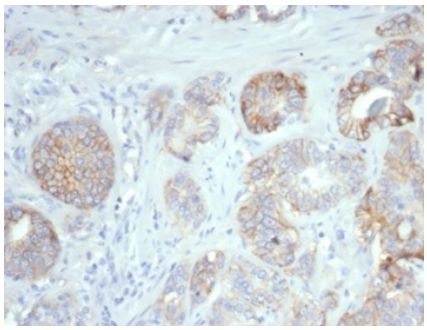
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

Clone	B7H3/4345
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	Membrane
Species Reactivity	Human
Positive Control	hepatocellular carcinoma or lung carcinoma., Human tonsil, Placenta

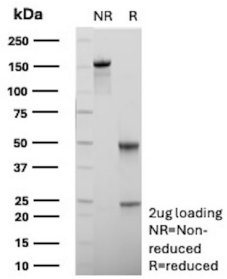
**Optimal dilution for a specific application should be determined.*

Product Images for CD276 / B7-H3 Antibody

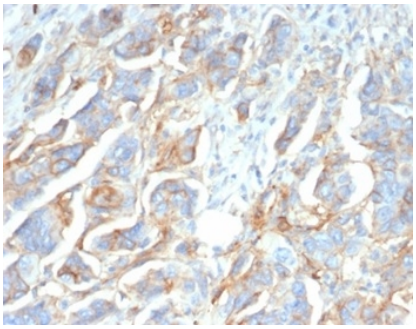


Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with CD276 / B7-H3 Mouse Monoclonal Antibody (B7H3/4345) at 2ug/ml. HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

Analysis of Protein Array containing more than 19,000 full-length human proteinsusing CD276 / B7-H3 Monospecific Mouse Monoclonal Antibody (B7H3/4345). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified CD276 Mouse Monoclonal Antibody (B7H3/4345). Confirmation of Purity and Integrity of Antibody.



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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

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