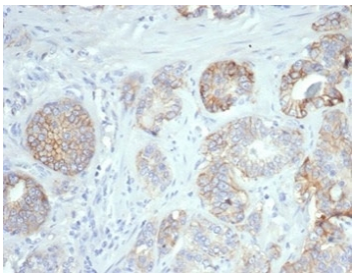
CD276 Antibody / B7-H3 [clone B7H3/4345] (V4040)

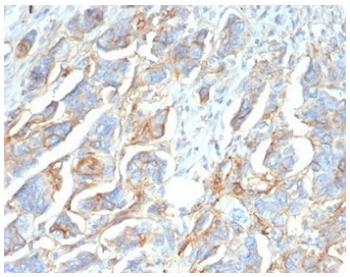
Catalog No.	Formulation	Size
V4040-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4040-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4040SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	B7H3/4345
Purity	Protein A/G affinity
UniProt	Q5ZPR3
Localization	Cell surface, cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This CD276 antibody is available for research use only.



IHC staining of FFPE human ovarian carcinoma tissue with B7-H3 antibody (clone B7H3/4345). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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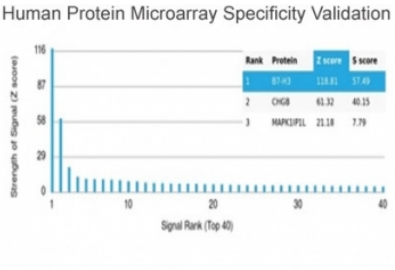

Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD276 antibody (clone B7H3/4345). These results demonstrate the foremost specificity of the B7H3/4345 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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 and CD276) belongs to the B7 immunoglobulin superfamily. Soluble B7-H3/CD276 binds a putative receptor on activated T-cells that is distinct from CD28, CTLA-4, ICOS and PD-1. Widely expressed on nonlymphoid tissues, it costimulates proliferation of both CD4+ and CD8+ T cells. The ability of B7-H3/CD276 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/CD276 as a potential therapeutic tool.

Application Notes

Optimal dilution of the CD276 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 100-300 from the human CD276 protein was used as the immunogen for the CD276 antibody.

Storage

Aliquot the CD276 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.