

Mouse anti-Human B7-H4 Monoclonal Antibody | anti-B7-H4 antibody

B7-H4 (Immuno-Inhibitory Protein)

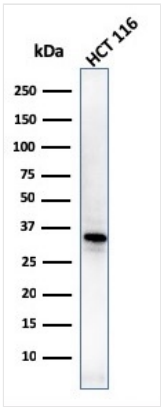
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215264	Mouse	Human	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

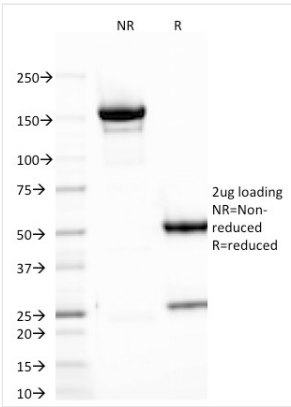
B7-H4; Monoclonal Antibody; B7-H4 (Immuno-Inhibitory Protein); B7 family member; H4; B7 homolog 4; B7 superfamily member 1; B7S1; Immune costimulatory protein B7-H4; T-cell costimulatory molecule B7x; V-set domain-containing T-cell activation inhibitor 1; VCTN1; anti-B7-H4 antibody

PRODUCT SPECIFICATIONS

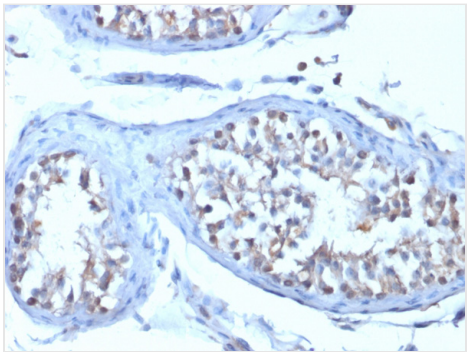
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	B7H4/1788
Specificity	T cell activation and immune function are regulated by the innate immune system through positive and negative costimulatory proteins. One such protein, B7-H4 (B7-homolog 4), belongs to the B7 immunoglobulin superfamily of ligand-lymphocyte interacting proteins. Expressed primarily on the membrane of lymphoid cells, B7-H4 is an immuno-inhibitory protein that interacts with receptors on the surface of T lymphocytes, thus mediating cellular and humoral immune responses. Overexpression of the B7-H4 protein is associated with certain malignancies, including ovarian and breast cancer, as its interaction with T cells suppresses tumor-associated immunity. Current research suggests that, similar to Mucin 16 (CA-125), B7-H4 may be a useful biomarker for the early detection of ovarian cancer.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	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.
Sequence Length	166
Applicable Applications for anti-B7-H4 antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Positive Control	HCT116, HeLa, SKBr-3, MCF-7 cells. Ovary, Pancreas, Placenta or Spleen.
Immunogen	A recombinant fragment of human B7-H4 protein (exact sequence is proprietary)
Cellular Localization	Cell Surface and Cytoplasmic
Hu-chromosome Location	1p13.1-12
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



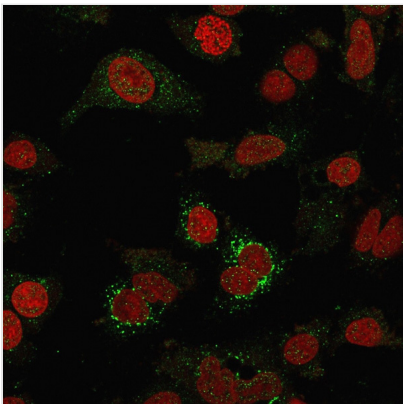
WB (Western Blot)
Western Blot of HCT116 cell lysates using B7-H4 Mouse Monoclonal Antibody (B7H4/1788).



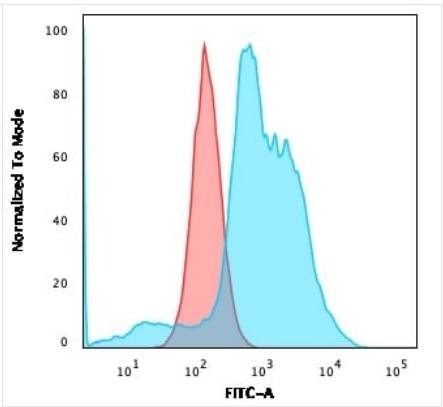
SDS_PAGE
SDS-PAGE Analysis Purified B7-H4 Mouse Monoclonal Antibody (B7H4/1788).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with B7-H4 Mouse Monoclonal Antibody (B7H4/1788).



IF (Immunofluorescence)
Immunofluorescence staining of SKBR-3 cells using B7-H4 Mouse Monoclonal Antibody (B7H4/1788) followed by goat anti-Mouse IgG conjugated to CF488 (green). Membrane stained with Phalloidin (Red).



FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of SKBR-3 cells using B7-H4 Mouse Monoclonal Antibody (B7H4/1788) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

ADDITIONAL INFORMATION

References

1. Salceda, S., Tang, T., Kmet, M., Munteanu, A., Ghosh, M., Macina, R., Liu, W., Pilkington, G. and Papkoff, J. 2005. The immunomodulatory protein B7-H4 is overexpressed in breast and ovarian cancers and promotes epithelial cell transformation. *Exp. Cell Res.* 306:128-141. 2. Sica, G.L., Choi, I.H., Zhu, G., Tamada, K., Wang, S.D., Tamura, H., Chapoval, A.I., Flies, D.B., Bajorath, J. and Chen, L. 2003. B7-H4, a molecule of the B7 family, negatively regulates T cell immunity. *Immunity* 18:849-861.

NCBI AND UNIPROT INFORMATION

NCBI GI #	70997756
NCBI GeneID	79679
UniProt Accession #	Q7Z7D3
Molecular Weight	35kDa
NCBI Official Full Name	B7-H4
NCBI Official Synonym Full Names	V-set domain containing T cell activation inhibitor 1
NCBI Official Symbol	VTCN1
NCBI Official Synonym Symbols	B7X; B7H4; B7S1; B7-H4; B7h.5; VCTN1; PRO1291
NCBI Protein Information	V-set domain-containing T-cell activation inhibitor 1
UniProt Protein Name	V-set domain-containing T-cell activation inhibitor 1
UniProt Gene Name	VTCN1
UniProt Synonym Gene Names	B7H4
UniProt Entry Name	VTCN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/b7-h4-antibody-clone-b7h4-1788-immunohistochemistry-western-blot-immunofluorescence-flow-cytometry-elisa/215264>