

mouse anti-Mouse, Human NALE B7-H4 Monoclonal Antibody | anti-B7-H4 antibody

NALE Monoclonal antibody to B7-H4 (Clone: ABM53A6)(No Azide, Low Endotoxin)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78562	mouse	Mouse, Human	Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry

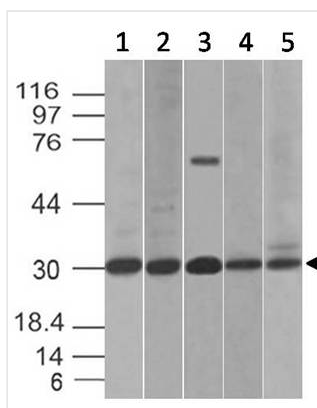
PRODUCT SYNONYMS

NALE B7-H4; Monoclonal Antibody; NALE Monoclonal antibody to B7-H4 (Clone: ABM53A6)(No Azide; Low Endotoxin); V-set domain-containing T-cell activation inhibitor 1; B7 homolog 4; B7h.5; Immune costimulatory protein B7-H4; Protein B7S1; B7H4; anti-B7-H4 antibody

PRODUCT SPECIFICATIONS

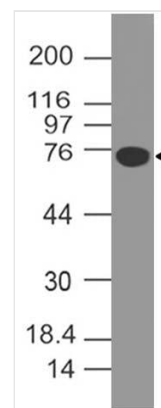
Host	mouse
Reactivity	Mouse, Human
Clonality	Monoclonal
Isotype	Mouse IgG2a, Kappa
Clone Number	ABM53A6
Purity/Purification	Protein G Chromatography
Form/Format	Low Endotoxin, Azide Free, Purified; 25 ug in 50 ul/100 ug in 200 ul PBS. No Azide, Low Endotoxin
Applicable Applications for anti-B7-H4 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	A partial length recombinant protein (a.a 23-220) of B7-H4 was used as the immunogen for this antibody.
Preparation and Storage	Store the antibody at 4 degree C; stable for 6 months. For long-term storage; store at -20 degree C. Avoid repeated freeze and thaw cycles.

IMAGES



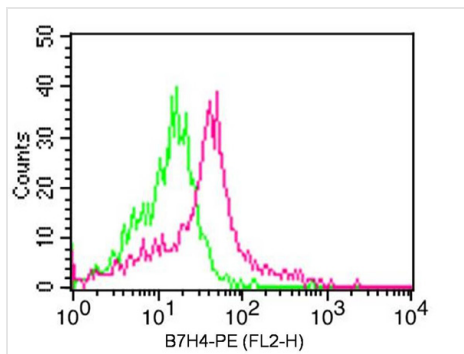
WB (Western Blot)

Fig-4: Western blot analysis of B7-H4. Anti-B7-H4 antibody (Clone: ABM53A6) was used at 2 ug/ml on (1) HCT-116, (2) PC3, (3) Kato 111, (4) C2C12 and (5) RAW Lysates.



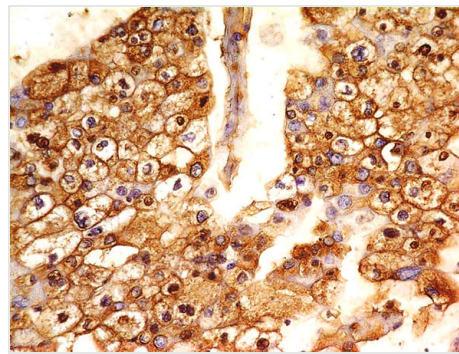
WB (Western Blot)

Fig-3: Western blot analysis of B7-H4. Anti-B7-H4 antibody (Clone: ABM53A6) was used at 4 ug/ml on human B7H4-FC fusion protein Lysate.



Application Data

Fig-2: Cell surface Flow analysis of B7-H4 antibody in human PBMC (Monocytes) cells using 0.5 ug/10⁶ cells of anti-B7-H4 antibody. Green represents isotype control; red represents anti-B7H4 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.



IHC (Immunohistochemistry)

Fig-1: Immunohistochemical analysis of B7-H4 antibody in Renal cell carcinoma using anti-B7-H4 antibody (Clone: ABM53A6) at 5 ug/ml

ADDITIONAL INFORMATION

Related Product Information for anti-B7-H4 antibody

B7-H4, a member of B7 family, is a transmembrane protein that has been shown to inhibit T cell responses and neutrophil expansion during bacterial infections. B7-H4 mRNA is widely distributed in mouse and human peripheral tissues and can be induced in monocytes, macrophages, and dendritic cells upon IL-6 and IL-10 stimulation. However, in a variety of tumor cells, B7-H4 is predominantly present in intracellular compartments with unknown mechanism and functions. Cell surface expression of B7-H4 protein is limited and shows an inducible pattern on hematopoietic cells. The overexpression of B7-H4 has been found in various types of human tumors, such as breast cancer, renal cell carcinoma (RCC), ovarian cancer, esophageal squamous cell carcinoma, gastric cancer, pancreatic cancer and melanoma etc, where its expression level is positively correlated with disease progression. By arresting cell cycle, B7-H4 ligation of T cells has a profound inhibitory effect on the growth, cytokine secretion, and development of cytotoxicity.

Product Categories/Family for anti-B7-H4 antibody

Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	70997756
NCBI GeneID	79679
UniProt Accession #	Q7Z7D3; Q0GN76; Q45VN0; Q5WPZ3; Q6P097; Q9H6B2
Molecular Weight	30,878 Da
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; RP11-229A19.4
NCBI Protein Information	V-set domain-containing T-cell activation inhibitor 1; B7 family member, H4; B7 superfamily member 1; T cell costimulatory molecule B7x; T-cell costimulatory molecule B7x; immune costimulatory protein B7-H4
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.

