

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

Monoclonal Antibody to B7-H4 (Clone: ABM53A6)

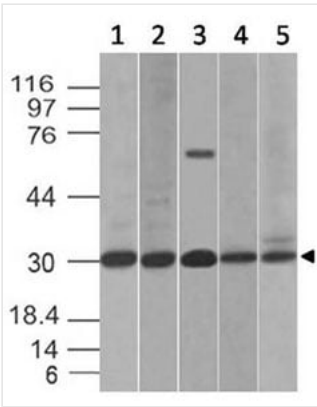
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78257	Mouse	Mouse, Human	Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

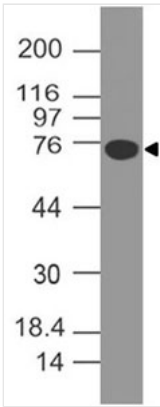
B7-H4; Monoclonal Antibody; Monoclonal Antibody to B7-H4 (Clone: ABM53A6); V-set domain-containing T-cell activation inhibitor 1; B7 homolog 4; B7h.5; Immune costimulatory protein B7-H4; Protein B7S1; Monoclonal antibody to B7H4 (Clone: ABM53A6); anti-B7-H4 antibody

PRODUCT SPECIFICATIONS

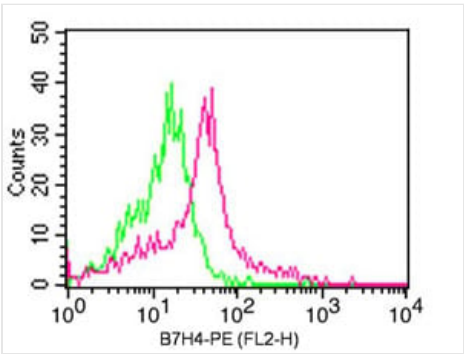
Host	Mouse
Reactivity	Mouse, Human
Clonality	Monoclonal
Isotype	IgG2a k
Clone Number	ABM53A6
Purity/Purification	Purified Protein G Chromatography
Form/Format	25 ug in 50 ul/100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Sequence Length	282
Applicable Applications for anti-B7-H4 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen Information	A partial length recombinant protein (a.a 23-220) of B7-H4 was used as the immunogen for this antibody.
Antigen	B7H4
Conjugate	Unconjugated
Preparation and Storage	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.



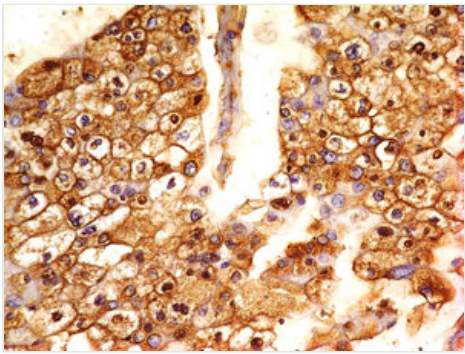
WB (Western Blot)
Fig-4: Western blot analysis of B7-H4. Anti-B7-H4 antibody (Clone: ABM53A6) was used at 2 ug/ml on (1) HCT-116, (2) PC3, (3) Kato 111, (4) C2C12 and (5) RAW Lysates.



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



FCM/FACS (Flow Cytometry)
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 (ABM53A6). 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	Antibodies ; Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	74759262
NCBI GeneID	79679
UniProt Accession #	Q7Z7D3 ; Q0GN76 ; Q45VN0 ; Q5WPZ3 ; Q6P097 ; Q9H6B2
NCBI Official Full Name	V-set domain-containing T-cell activation inhibitor 1

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	B7-H4

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-abm53a6-western-blot-flow-cytometry-immunohistochemistry-elisa/78257>