

Mouse anti-Human VTCN1 / B7-H4 Monoclonal Antibody | anti-VTCN1 antibody

Mouse Monoclonal [clone H74] (IgG1,k) to Human VTCN1 / B7-H4

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51920	Mouse	Human	Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

VTCN1 / B7-H4; Monoclonal Antibody; Mouse Monoclonal [clone H74] (IgG1; k) to Human VTCN1 / B7-H4; Anti-VTCN1 / B7-H4 Antibody (clone H74) IHC-plus; VTCN1; B7 superfamily member 1; B7 Superfamily; member 1; B7h.5; B7S1; B7H4; PRO1291; VCTN1; RP11-229A19.4; B7 family member; H4; B7-H4; B7X; Protein B7S1; Human VTCN1; anti-VTCN1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	H74
Purity/Purification	Protein G purified from tissue culture supernatant
Form/Format	PBS with 0.09% (w/v) sodium azide
Concentration	0.5 mg/ml (varies by lot)
Sequence Length	282
Applicable Applications for anti-VTCN1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Target Species	Human
Immunogen Description	VTCN1/B7-H4 antibody was raised against human VTCN1
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store at 2-8 degree C

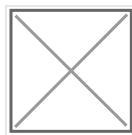
IMAGES



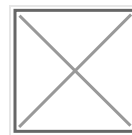
FCM/FACS (Flow Cytometry)
Staining of non-transfected 293T cells with 0.125 ug of Purified Mouse IgG1, K isotype control (open histogram) or 0.125 ug of Purified anti-human B7-H4 (H74) (colored histogram) followed by Biotin Anti-Mouse IgG and SAV-PE. Total cells were used for analysis.



FCM/FACS (Flow Cytometry)
Staining of human B7-H4 transfected 293T cells with 0.125 ug of Purified Mouse IgG1, K isotype control (open histogram) or 0.125 ug of Purified anti-human B7-H4 (H74) (colored histogram) followed by Biotin Anti-Mouse IgG and SAV-PE. Total cells were used for analysis.

**IHC (Immunohiostchemistry)**

Anti-VTCN1 / B7-H4 antibody IHC of human pancreas. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 20 ug/ml.

**IHC (Immunohistochemistry)**

Anti-VTCN1 / B7-H4 antibody IHC of human spleen. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 20 ug/ml.

NCBI AND UNIPROT INFORMATION

NCBI GI #	99028881
NCBI GeneID	79679
NCBI Accession #	NP_078902.2
NCBI GenBank Nucleotide #	NM_024626.3
UniProt Accession #	Q7Z7D3; Q0GN76; Q45VNO; Q5WPZ3; Q6P097; Q9H6B2
NCBI Official Full Name	V-set domain-containing T-cell activation inhibitor 1 isoform 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; VTCN1; B7 homolog 4; 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	B7-H4
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/vtcn1-b7-h4-antibody-clone-h74-flow-cytometry-immunohistochemistry-elisa/51920>