

B7-H4 recombinant antibody

Rabbit anti-B7-H4 Recombinant Monoclonal Antibody [BLR043F]

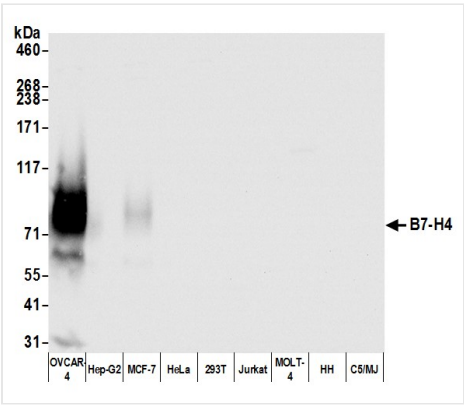
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23811	Rabbit	Human	Western Blot, Immunoprecipitation, Immunohistochemistry, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

B7-H4; Monoclonal Recombinant Antibody; Rabbit anti-B7-H4 Recombinant Monoclonal Antibody [BLR043F]; PRO1291; B7S1; V-set domain-containing T-cell activation inhibitor 1; VCTN1; T-cell costimulatory molecule B7x; T cell costimulatory molecule B7x; Protein B7S1; B7 family member; H4; B7H4; B7h.5; B7 superfamily member 1; B7 homolog 4; immune costimulatory protein B7-H4; B7X; V-set domain containing T cell activation inhibitor 1; B7-H4 recombinant antibody

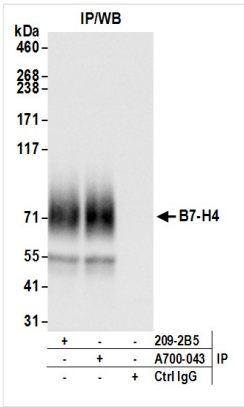
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	BLR043F
Purity/Purification	Purified
Form/Format	Liquid. Whole IgG. Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide
Concentration	50ug/ml (varies by lot)
Applicable Applications for B7-H4 recombinant antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:1000 IP: 20 ul/mg lysate IHC: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections. ICC: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections. IHC-IF: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections. FC/FACS: Fixed and permeabilized cells were stained with 4 ul per 1 x 10 ⁶ cells.
Immunogen	Residues 30-282 (ECD)
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



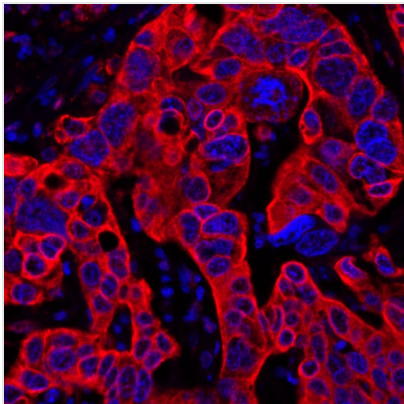
WB (Western Blot)

Detection of human B7-H4 by western blot. Samples: Whole cell lysate (50 ug) from OVCAR-4, Hep-G2, MCF-7, HeLa, HEK293T, Jurkat, MOLT-4, HH, and C561/J cells prepared using NETN lysis buffer. Antibody: Rabbit anti-B7-H4 recombinant monoclonal antibody (AAA23811 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 3 seconds.



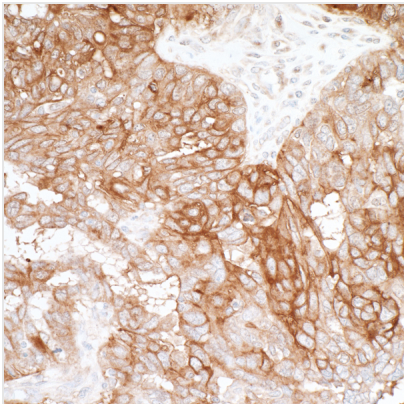
IP (Immunoprecipitation)

Detection of human B7-H4 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from OVCAR-4 cells prepared using NETN lysis buffer. Antibodies: Rabbit anti-B7-H4 recombinant monoclonal antibody (AAA23811 lot 1) used for IP at 20 ul per reaction. B7-H4 was also immunoprecipitated by rabbit anti-B7-H4 recombinant monoclonal antibody [209-2B5]. For blotting immunoprecipitated B7-H4, AAA23811 was used at 1:1000. Detection: Chemiluminescence with an exposure time of 3 seconds.



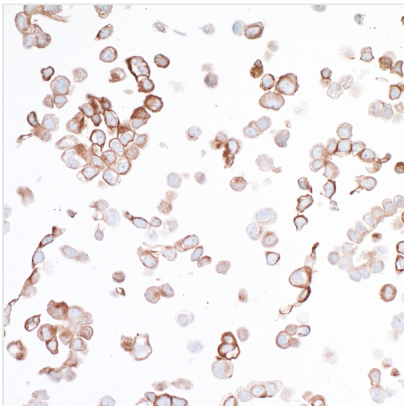
IHC (Immunohistochemistry)

Detection of human B7-H4 (red) by immunohistochemistry. Sample: FFPE section of human lung carcinoma. Antibody: Rabbit anti-B7-H4 recombinant monoclonal antibody (AAA23811 lot 1) used at 1:250. Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: Opal. Counterstain: DAPI (blue).



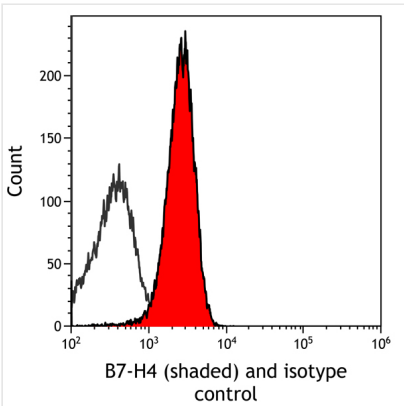
IHC (Immunohistochemistry)

Detection of human B7-H4 by immunohistochemistry. Sample: FFPE section of ovarian carcinoma. Antibody: Rabbit anti-B7-H4 recombinant monoclonal antibody (AAA23811 lot 1) used at 1:100. Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.



ICC (Immunocytochemistry)

Detection of human B7-H4 by immunocytochemistry. Sample: FFPE section of OVCAR-3 cells. Antibody: Rabbit anti-B7-H4 recombinant monoclonal antibody (AAA23811 lot 1) used at 1:100. Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.



FCM (Flow Cytometry)

Detection of human B7-H4 (shaded) in human peripheral blood mononuclear cells by flow cytometry. Antibody: Rabbit anti-B7-H4 recombinant monoclonal (AAA23811 lot 1) or isotype control (unshaded). Secondary: DyLight 488-conjugated goat anti-rabbit IgG .

ADDITIONAL INFORMATION

Related Product Information for B7-H4 recombinant antibody	B7-H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, B7-H4 plays an important role, together with regulatory T-cells (Treg), in the suppression of tumor-associated antigen-specific T-cell immunity. [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/P10914].
Product Categories/Family for B7-H4 recombinant antibody	Primary Antibodies

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; Q45VN0; 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	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-recombinant-antibody-clone-blr043f-western-blot-immunoprecipitation-immunohistochemistry-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/23811>