

Product datasheet

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ARG42744 anti-B7-H4 antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes B7-H4

Tested Reactivity Hu

Tested Application FACS, ICC/IF, IHC-P

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name B7-H4

Species Human

Immunogen Recombinant protein corresponding to T57-A258 of Human B7-H4.

Conjugation Un-conjugated

Alternate Names B7H4; B7 homolog 4; Protein B7S1; V-set domain-containing T-cell activation inhibitor 1; B7-H4; B7X; T-

cell costimulatory molecule B7x; B7h.5; VCTN1; PRO1291; Immune costimulatory protein B7-H4; B7S1

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer 0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.

Preservative 0.05% Sodium azide

Stabilizer 4% Trehalose

Concentration 0.5 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Bioinformation

Gene Symbol VTCN1

Gene Full Name V-set domain containing T cell activation inhibitor 1

Background This gene encodes a protein belonging to the B7 costimulatory protein family. Proteins in this family are

present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. Studies have shown that high levels of the encoded protein has been correlated with tumor progression. A pseudogene of this gene is located on chromosome 20. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Function 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, plays an important role, together with regulatory T-cells (Treg), in the suppression of tumor-associated antigen-specific T-cell immunity. Involved in promoting epithelial cell transformation.

[UniProt]

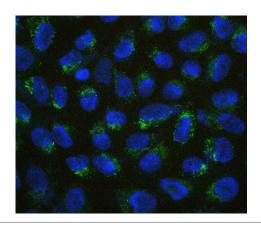
Calculated Mw 31 kDa

PTM N-glycosylated. [UniProt]

Cell membrane; Single-pass type I membrane protein. Note=Expressed at the cell surface. A soluble

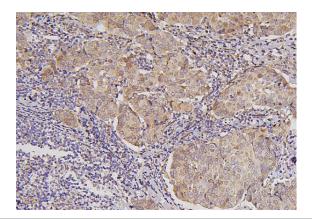
form has also been detected. [UniProt]

Images



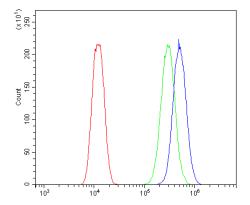
ARG42744 anti-B7-H4 antibody ICC/IF image

Immunofluorescence: U2OS cells were blocked with 10% goat serum and then stained with ARG42744 anti-B7-H4 antibody (green) at 2 $\mu g/ml$ dilutioin, overnight at 4°C. DAPI (blue) for nuclear staining.



ARG42744 anti-B7-H4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42744 anti-B7-H4 antibody at 1 μ g/ml dilution, overnight at 4°C.



ARG42744 anti-B7-H4 antibody FACS image

Flow Cytometry: U2OS cells were blocked with 10% normal goat serum and then stained with ARG42744 anti-B7-H4 antibody (blue) at 1 $\mu g/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was Rabbit IgG (1 $\mu g/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.