

Product datasheet

Recombinant human B7H4 protein ab191634

2 Images

Description

Product name	Recombinant human B7H4 protein	
Biological activity	Measured by its ability to inhibit anti-CD3 antibody induced IL2 secretion in Human T lymphocytes. The ED ₅₀ for this effect is typically 0.75 - 3 µg/ml.	
Purity	> 90 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/µg	
Expression system	HEK 293 cells	
Accession	<u>Q7Z7D3</u>	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	FGISGRHSITVTTVASAGNIGEDGILSCTFEPDIKLSDIVIQW LKEGVLG LVHEFKEGKDELSEQDEMFRGRTAVFADQVMGNASLRL KNVQLTDAGTY KCYIITSKGGKGNANLEYKTGAFSMPEVNVVDYNASSETLRC EAPRWFPQPT VVWASQVDQGANFSEVSNTSFELNSENVTMKVVSVLYN VTINNTYSCMIE NDIAKATGDIKVTSEIKRRSHLQLLNSKA	
Predicted molecular weight	26 kDa including tags	
Amino acids	29 to 258	
Tags	His tag C-Terminus	
Additional sequence information	NP_078902.	

Specifications

Our **Abpromise guarantee** covers the use of **ab191634** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Functional Studies

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

pH: 7.40

Constituents: 5% Trehalose, 95% PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution Reconstitute with sterile deionized water to a concentration of 700 µg/ml.

General Info

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.

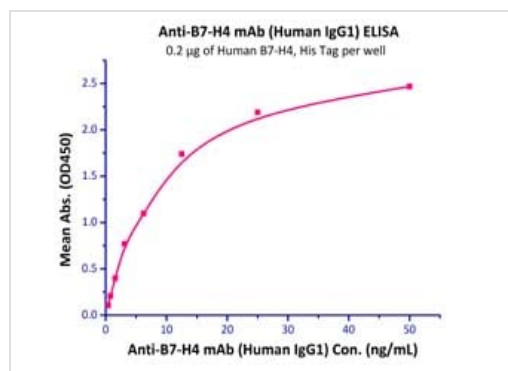
Tissue specificity Overexpressed in breast, ovarian, endometrial, renal cell (RCC) and non-small-cell lung cancers (NSCLC). Expressed on activated T- and B-cells, monocytes and dendritic cells, but not expressed in most normal tissues (at protein level). Widely expressed, including in kidney, liver, lung, ovary, placenta, spleen and testis.

Sequence similarities Belongs to the immunoglobulin superfamily. BTN/MOG family.
Contains 2 Ig-like V-type (immunoglobulin-like) domains.

Post-translational modifications N-glycosylated.

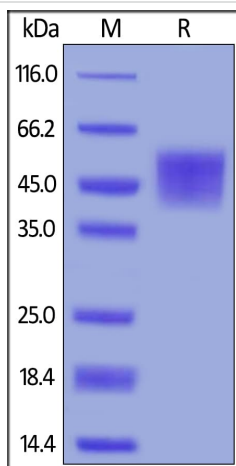
Cellular localization Cell membrane. Expressed at the cell surface. A soluble form has also been detected.

Images



Immobilized Human B7-H4, His Tag at 2 µg/mL can bind Anti-B7-H4 MAAb (Human IgG1) with a linear range of 0.4-6 ng/mL.

Functional Studies - Recombinant human B7H4 protein (ab191634)



SDS-PAGE analysis of reduced ab191634 stained overnight with Coomassie Blue. DTT-reduced protein migrates as 45-60 kDa due to glycosylation.

SDS-PAGE - Recombinant human B7H4 protein (ab191634)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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