



## Rabbit Anti-B7H4 antibody

SL20711R

<b>Product Name:</b>	B7H4
<b>Chinese Name:</b>	B7-H4抗体
<b>Alias:</b>	B7-H4; B7h4; B7S1; B7x; BC032925; Immune costimulatory protein B7H4; MGC41287; PRO1291; T cell costimulatory molecule B7x; V set domain-containing T cell activation inhibitor 1; VCTN1; VTCN1_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	28kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human B7H4:151-250/282<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	B7-H4 protein is expressed on the surface of a variety of immune cells and functions as a negative regulator of T cell responses. While B7-H4 mRNA is widely distributed in mouse and human peripheral tissues, cell surface expression of B7-H4 protein is limited and shows an inducible pattern on hematopoietic cells. Putative receptor of B7-H4 can be upregulated on activated T cells. By arresting cell cycle, B7-H4 ligation of T cells

has a profound inhibitory effect on the growth, cytokine secretion, and development of cytotoxicity. Administration of B7-H4Ig into mice impairs antigen-specific T cell responses whereas blockade of endogenous B7-H4 by specific monoclonal antibody promotes T cell responses. B7-H4 thus may participate in negative regulation of cell-mediated immunity in peripheral tissues.

**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.

**Subcellular Location:**

cell membrane; Single-pass type I membrane protein (Potential). Note=Expressed at the cell surface. A soluble form has also been detected.

**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.

**Post-translational modifications:**

N-glycosylated.

**Similarity:**

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

**SWISS:**

Q7Z7D3

**Gene ID:**

79679

**Database links:**

[Entrez Gene: 79679](#)Human

[Entrez Gene: 242122](#)Mouse

[Entrez Gene: 295322](#)Rat

[Olim: 608162](#)Human

[SwissProt: Q7Z7D3](#)Human

[SwissProt: Q7TSP5](#)Mouse

[SwissProt: Q501W4](#)Rat

[Unigene: 546434](#)Human

[Unigene: 137467](#)Mouse

[Unigene: 160956](#)Rat

**Important Note:**

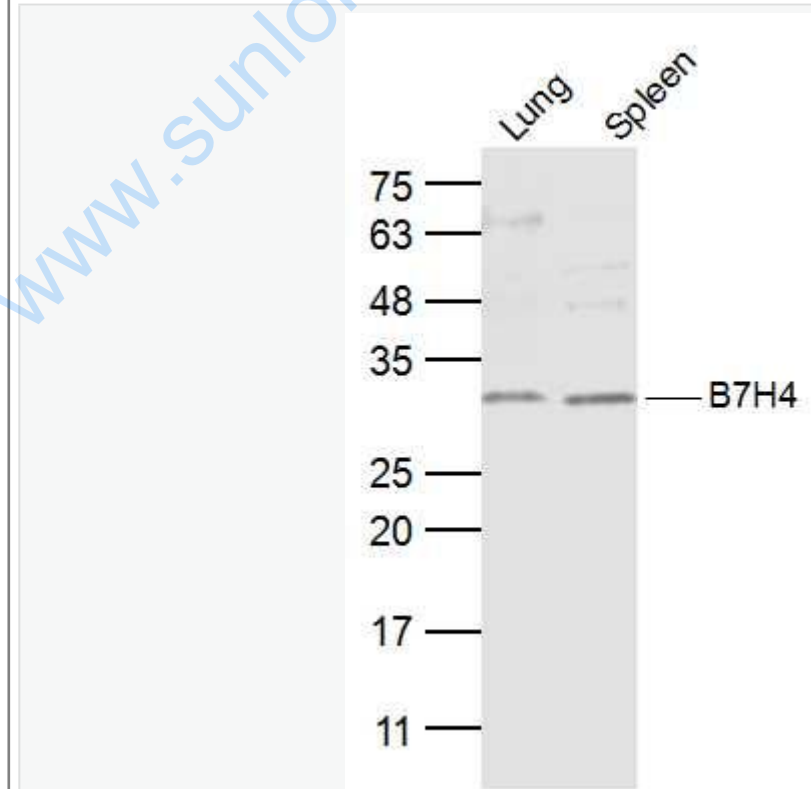
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

B7-H4(B7 Homolog 4)是B7家族中的新成员,它通过抑制T细胞的增殖、cell factor的产生和细胞周期的进程来负性调控T细胞的免疫应答,其大量表达B7-H4还可以促进epithelial cells的恶性转化,保护表皮细胞免于失巢凋亡,在Tumour的发生,进展和转归中发挥重要作用.

目前对B7-

H4信号通路的进一步的研究必将为自身免疫性疾病、病毒感染性疾病和器官移植后排斥反应中T细胞介导的免疫应答调控提供了新的途径,同时也为Tumour的诊断、治疗提供崭新的前景。

Picture:



Sample:

Lung (Mouse) Lysate at 40 ug

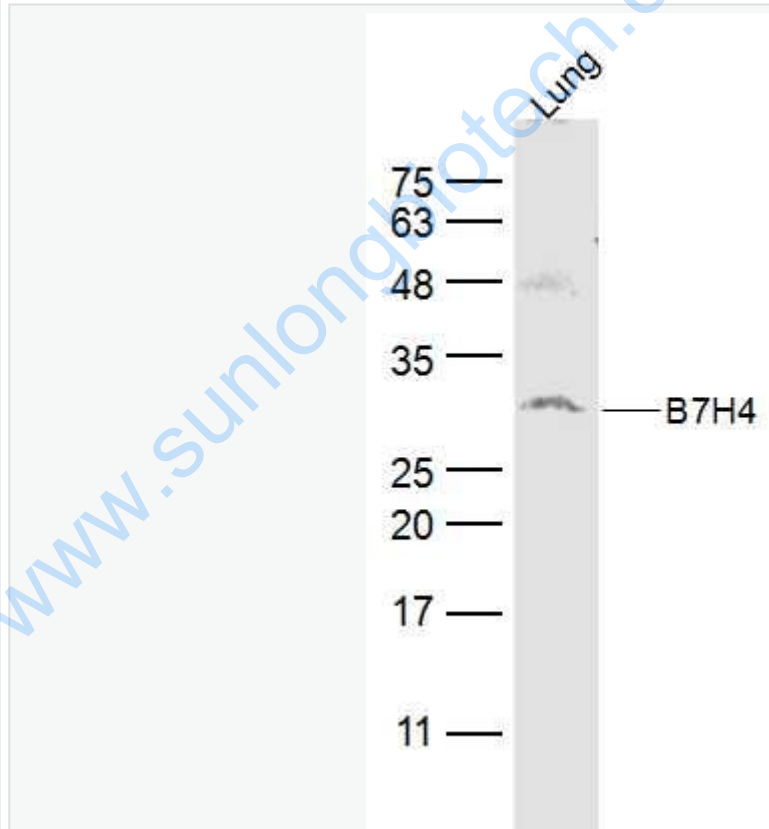
Spleen (Mouse) Lysate at 40 ug

Primary: Anti- B7H4 (SL20711R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 28 kD

Observed band size: 28 kD



Sample:

Lung (Rat) Lysate at 40 ug

Primary: Anti- B7H4 (SL20711R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 28 kD

Observed band size: 28 kD

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