bs-0673R **[Primary Antibody]**

B7H4 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 79679 **SWISS:** Q7Z7D3

Target: B7H4

Immunogen: KLH conjugated synthetic peptide derived from human B7H4: 50-100/282.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

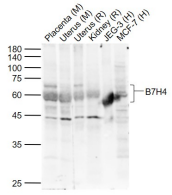
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Dog)

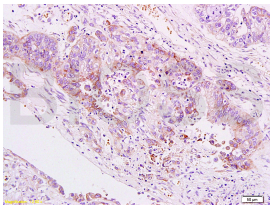
Predicted MW.: 28 kDa

Subcellular Location: Cell membrane

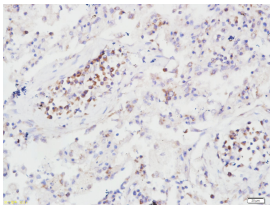
VALIDATION IMAGES



Sample: Lane 1: Mouse Placenta tissue lysates Lane 2: Mouse Uterus tissue lysates Lane 3: Rat Uterus tissue lysates Lane 4: Rat Kidney tissue lysates Lane 5: Human JEG-3 cell lysates Lane 6: Human MCF-7 cell lysates Primary: Anti-B7H4 (bs-0673R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 28 kD Observed band size: 55-65 kD



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-B7H4 Polyclonal Antibody, Unconjugated(bs-0673R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Human lung cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (B7H4) Polyclonal Antibody, Unconjugated (bs-0673R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

SELECTED CITATIONS

- **[IF=31.745]** Kenneth Peuker. et al. Microbiota-dependent activation of the myeloid calcineurin-NFAT pathway inhibits B7H3- and B7H4-dependent anti-tumor immunity in colorectal cancer. Immunity. 2022 Mar;: IHC ;Human,Mouse. 35364006
- **[IF=2.84]** Maskey, Ninu, et al. "Impact of neoadjuvant chemotherapy on lymphocytes and co-inhibitory B7-H4 molecule

in gastric cancer: low B7-H4 expression associates with favorable prognosis." Tumor Biology (2014): 1-7. IHC ;="Human". 25260881