abcam

Product datasheet

Anti-B7H4 antibody [BLR043F] ab243899

Recombinant

6 Images

Overview

Product name	Anti-B7H4 antibody [BLR043F]
Description	Rabbit monoclonal [BLR043F] to B7H4
Host species	Rabbit
Tested applications	**Suitable for:** ICC, IHC-P, IP, WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment corresponding to Human B7H4 (extracellular). Database link: **Q7Z7D3**
General notes	This product is sold under License from Bethyl Laboratories, Inc.

Properties

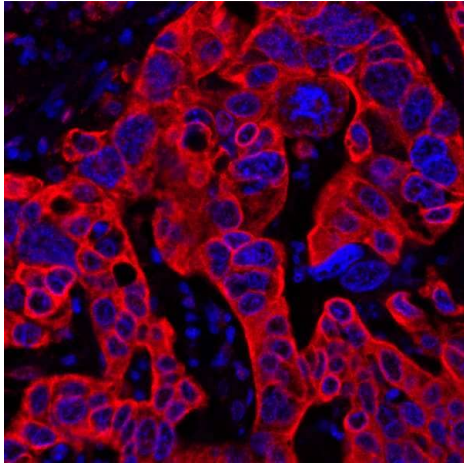|	
Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.8 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA
Purification notes	Recombinant antibody was purified from cell culture supernatant.
Clonality	Monoclonal
Clone number	BLR043F
Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab243899 in the following tested applications.

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

Application	Abreviews	Notes
ICC		1/100 - 1/500.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration. Use 20µl/mg lysate.
WB		1/1000.

Target
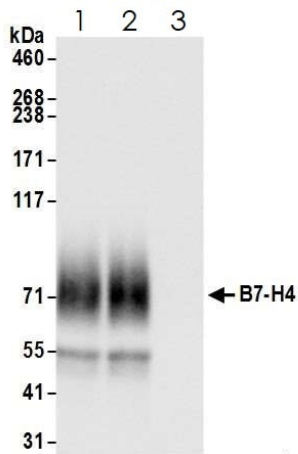
Function	Negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, plays an important role, together with regulatory T-cells (Treg), in the suppression 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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-B7H4 antibody [BLR043F] (ab243899)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue labelling B7H4 with ab243899 at 1/250 dilution.

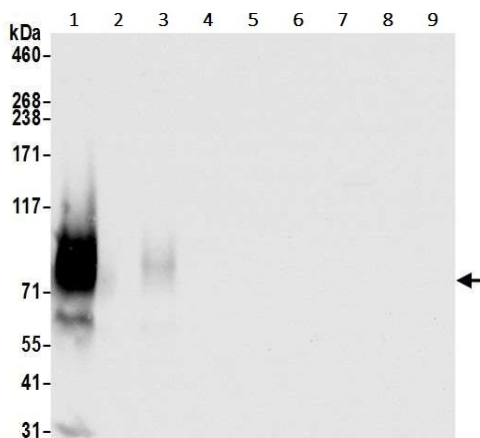Immunoprecipitation - Anti-B7H4 antibody [BLR043F] (ab243899)

B7H4 was immunoprecipitated from 1.0 mg OVCAR-4 whole cell lysate with ab243899 at 20 μl per reaction Western blot was performed on the immunoprecipitate using ab243899 at 1/1000 dilution.

Lane 1: recombinant rabbit anti-B7H4 monoclonal antibody IP in OVCAR-4 whole cell lysate.

Lane 2: ab243899 IP in OVCAR-4 whole cell lysate.

Lane 3: Control IgG in OVCAR-4 whole cell lysate.

Detection: Chemiluminescence with an exposure time of 3 seconds.

Western blot - Anti-B7H4 antibody [BLR043F] (ab243899)

Western blot analysis using ab243899 at 1/1000 dilution.

Lane 1: OVCAR-4 whole cell lysate (50 μg).

Lane 2: HepG2 whole cell lysate (50 μg).

Lane 3: MCF7 whole cell lysate (50 μg).

Lane 4: HeLa whole cell lysate (50 μg).

Lane 5: HEK-293T whole cell lysate (50 μg).
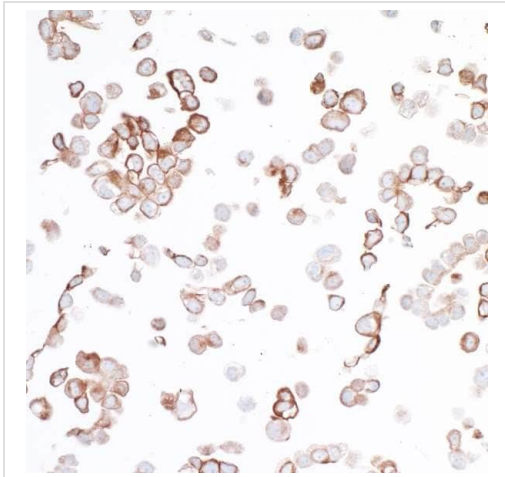
Lane 6: Jurkat whole cell lysate (50 μg).

Lane 7: MOLT-4 whole cell lysate (50 μg).

Lane 8: HH whole cell lysate (50 μg).
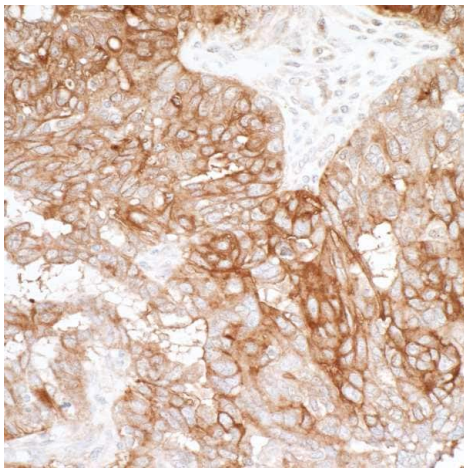
Lane 9: C5/MJ whole cell lysate (50 μg).

A HRP-conjugated goat anti-rabbit IgG antibody was used as the

secondary. Detection: chemiluminescence with an exposure time of 3 seconds.

Formalin-fixed, paraffin-embedded NIH:OVCAR-3 (human ovary adenocarcinoma cell line) cells labeling B7H4 using ab243899 at 1/100 dilution in ICC analysis. A HRP-conjugated goat-anti rabbit IgG was used as the secondary. DAB staining.

Immunocytochemistry - Anti-B7H4 antibody [BLR043F] (ab243899)

Formalin-fixed, paraffin-embedded human ovarian carcinoma tissue stained for B7H4 using ab243899 at 1/100 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit antibody was used as the secondary. DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-B7H4 antibody [BLR043F] (ab243899)

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-B7H4 antibody [BLR043F] (ab243899)

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