

Product datasheet

Anti-CD276 antibody [BLR025F] - BSA free ab243882

Recombinant

7 Images

Overview

Product name	Anti-CD276 antibody [BLR025F] - BSA free
Description	Rabbit monoclonal [BLR025F] to CD276 - BSA free
Host species	Rabbit
Tested applications	Suitable for: ICC, IHC-P, IP, WB, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human CD276 aa 500-534 (C terminal). The exact sequence is proprietary. NP_001019907.1 and Gene ID 80381. Database link: Q5ZPR3
Positive control	WB: MC7 ; A172 ; U-251 MG ; OVCAR-3 ; HeLa ; HEK-293T Flow Cyt: HEK-293T ICC: A172 IHC-P: human ovarian tissue ; human lung carcinoma IP: HeLa
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 Constituent: 99% Borate buffered saline
Purification notes	Recombinant antibody was purified from cell culture supernatant.
Clonality	Monoclonal
Clone number	BLR025F
Isotype	IgG

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab243882 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 3µl/mg lysate.
WB		1/1000.
Flow Cyt		Use 1µl for 10 ⁶ cells.

Target

Function

May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling.

Tissue specificity

Ubiquitous but not detectable in peripheral blood lymphocytes or granulocytes. Weakly expressed in resting monocytes. Expressed in dendritic cells derived from monocytes. Expressed in epithelial cells of sinonasal tissue. Expressed in extravillous trophoblast cells and Hofbauer cells of the first trimester placenta and term placenta.

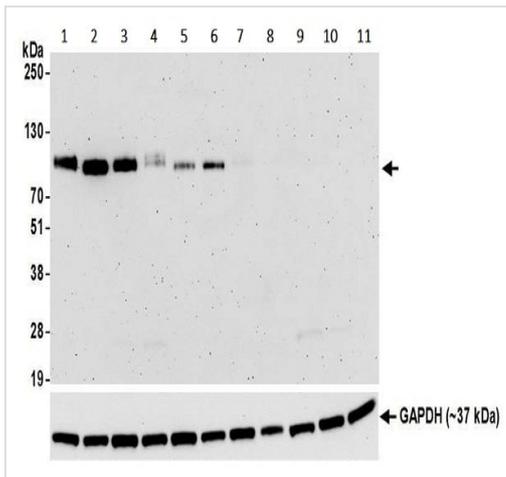
Sequence similarities

Belongs to the immunoglobulin superfamily. BTN/MOG family.
Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
Contains 2 Ig-like V-type (immunoglobulin-like) domains.

Cellular localization

Membrane.

Images



Western blot - Anti-CD276 antibody [BLR025F] - BSA free (ab243882)

Western blot analysis using ab243882 at 1/1000 dilution.

Lane 1: MCF7 whole cell lysate (15 µg).

Lane 2: A172 whole cell lysate (15 µg).

Lane 3: U-251 MG whole cell lysate (15 µg).

Lane 4: OVCAR-3 whole cell lysate (15 µg).

Lane 5: HeLa whole cell lysate (15 µg).

Lane 6: HEK-293T whole cell lysate (15 µg).

Lane 7: HCT 116 whole cell lysate (15µg).

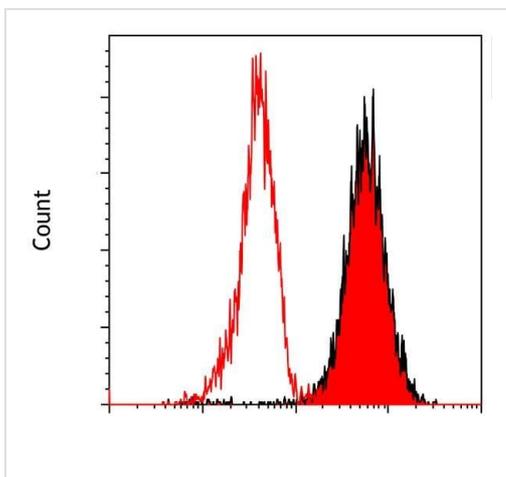
Lane 8: RPMI 8226 whole cell lysate (15 µg).

Lane 9: MJ whole cell lysate (15 µg).

Lane 10: Ramos whole cell lysate (15 µg).

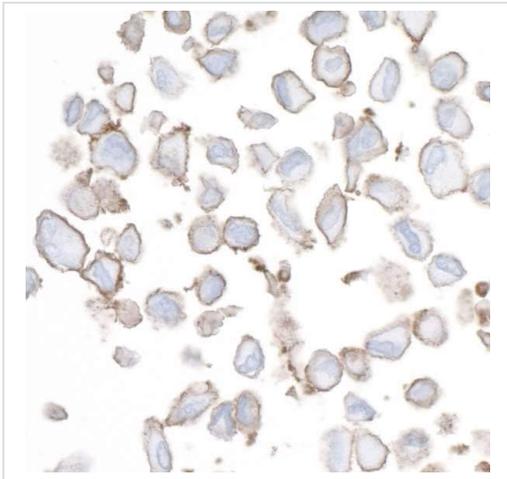
Lane 11: Jurkat whole cell lysate (15 µg).

A HRP-conjugated goat anti-rabbit IgG antibody was used as the secondary. Detection: chemiluminescence with an exposure time of 3 minutes.



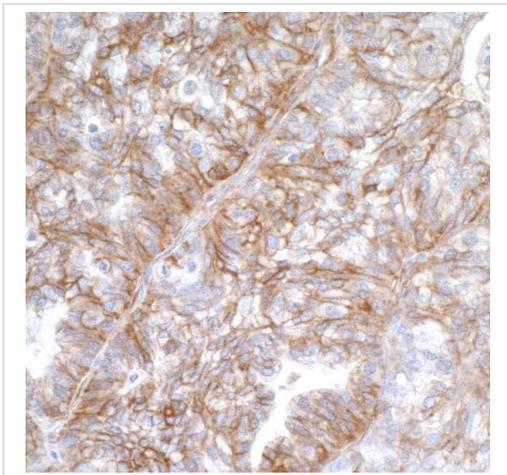
Flow Cytometry - Anti-CD276 antibody [BLR025F] - BSA free (ab243882)

Flow cytometric analysis of HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate labeling CD276 with ab243882 (shaded) compared with a isotype control (unshaded). Secondary: DyLight® 650-conjugated goat anti-rabbit IgG.



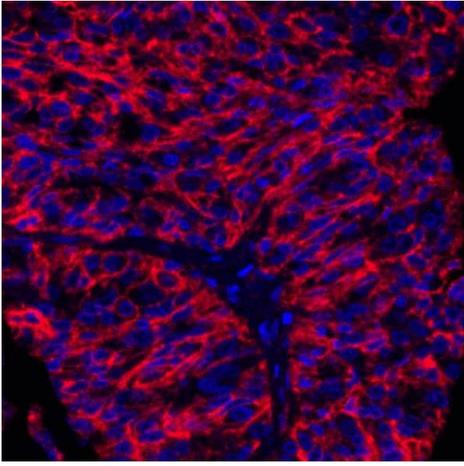
Immunocytochemistry - Anti-CD276 antibody
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Formalin-fixed, paraffin-embedded A172 cells labeling CD276 using ab243882 at 1/200 dilution in ICC analysis. A HRP-conjugated goat-anti rabbit IgG was used as the secondary. DAB staining.



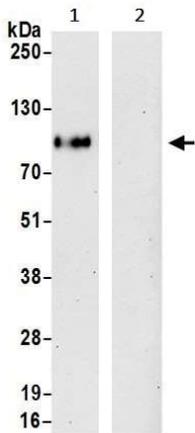
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD276 antibody
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Formalin-fixed, paraffin-embedded human ovarian tissue stained for CD276 using ab243882 at 1/200 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit antibody was used as the secondary. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD276 antibody
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Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lung carcinoma labeling CD276 with ab243882 at 1/250 dilution, followed by secondary antibody HRP-conjugated Goat Anti-Rabbit IgG. Counterstained with DAPI (blue). Opal staining.



Immunoprecipitation - Anti-CD276 antibody
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CD276 was immunoprecipitated from 1.0 mg HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab243882 at 3 μ l per reaction. Western blot was performed on the immunoprecipitate using ab243882 at 1/1000 dilution.

Lane 1: ab243882 IP in HeLa whole cell lysate.

Lane 2: Control IgG IP in HeLa whole cell lysate.

Detection: Chemiluminescence with an exposure time of 30 seconds.

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

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

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