

Anti-CD81 antibody [EPR4244] - BSA and Azide free ab232390

Recombinant RabMAb

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Overview

Product name	Anti-CD81 antibody [EPR4244] - BSA and Azide free
Description	Rabbit monoclonal [EPR4244] to CD81 - BSA and Azide free
Host species	Rabbit
Specificity	To detect stronger signal in exosome lysate with this antibody, please try protocols of exosome isolation in PMID: 33184263, PMID: 34502537 , PMID: 32121214, PMID: 32375124.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Ramos, JAR, U87-MG, IM-9, peripheral blood mononuclear cell (PBMC), C6, PC-12, C2C12, mouse brain, mouse heart, A549, 293T, HeLa, Huh7, HCT 116, LNCaP, U-87 and RAW264.7 cell lysates.
General notes	<p>ab232390 is the carrier-free version of ab109201.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4244
Isotype	IgG

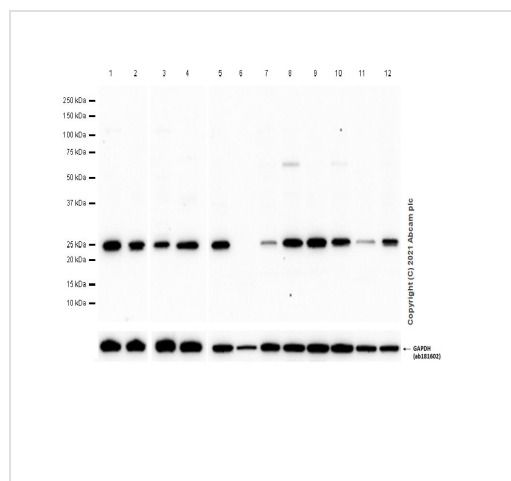
Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab232390 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
WB		Use at an assay dependent concentration. Predicted molecular weight: 25 kDa. For WB related protocols, please refer to the Protocols section below.

Target

Function	May play an important role in the regulation of lymphoma cell growth. Interacts with a 16-kDa Leu-13 protein to form a complex possibly involved in signal transduction. May acts a the viral receptor for HCV.
Tissue specificity	Hematolymphoid, neuroectodermal and mesenchymal tumor cell lines.
Involvement in disease	Defects in CD81 are the cause of immunodeficiency common variable type 6 (CVID6) [MIM:613496]; also called antibody deficiency due to CD81 defect. CVID6 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.
Sequence similarities	Belongs to the tetraspanin (TM4SF) family.
Post-translational modifications	Not glycosylated.
Cellular localization	Membrane.



Western blot - Anti-CD81 antibody [EPR4244] - BSA and Azide free (ab232390)

All lanes : Anti-CD81 antibody [EPR4244] ([ab109201](#)) at 1/1000 dilution

Lane 1 : RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate with NFDM/TBST

Lane 2 : C2C12 (Mouse myoblasts myoblast) whole cell lysate with NFDM/TBST

Lane 3 : Mouse brain tissue lysate with NFDM/TBST

Lane 4 : Mouse heart tissue lysate with NFDM/TBST

Lane 5 : Huh7 (Human hepatocellular carcinoma epithelial cell) whole cell lysate with NFDM/TBST

Lane 6 : HL-60 (Human acute promyelocytic leukemia promyeloblast) whole cell lysate with NFDM/TBST

Lane 7 : HCT 116 (Human colorectal carcinoma epithelial cell) whole cell lysate with NFDM/TBST

Lane 8 : LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate with NFDM/TBST

Lane 9 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell) whole cell lysate with NFDM/TBST

Lane 10 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate with NFDM/TBST

Lane 11 : A549 (Human lung carcinoma epithelial cell) whole cell lysate with NFDM/TBST

Lane 12 : 293T (Human embryonic kidney epithelial cell) whole cell lysate with NFDM/TBST

Lysates/proteins at 20 µg per lane.

Blocking peptides at 5 % per lane.

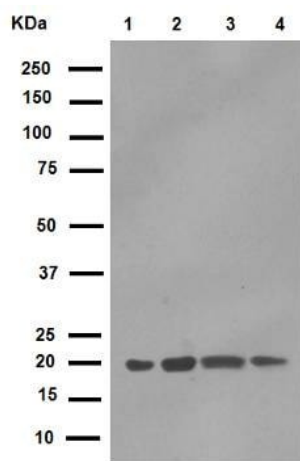
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 25 kDa

Observed band size: 25 kDa

Exposure time: 60 seconds



Western blot - Anti-CD81 antibody [EPR4244] - BSA and Azide free (ab232390)

All lanes : Anti-CD81 antibody [EPR4244] ([ab109201](#)) at 1/700 dilution (unpurified)

Lane 1 : Ramos (Human Burkitt's lymphoma cell line) cell lysate

Lane 2 : U87-MG (Human glioblastoma-astrocytoma epithelial cell line) cell lysate

Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma cell line) cell lysate

Lane 4 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) cell lysate

Lysates/proteins at 10 µg per lane.

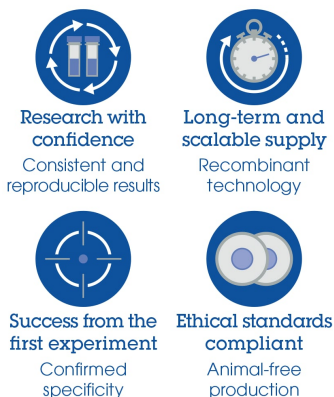
Secondary

All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 25 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109201](#)).

Why choose a recombinant antibody?



Anti-CD81 antibody [EPR4244] - BSA and Azide free (ab232390)

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

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