

Product datasheet

Anti-CD81 antibody [EPR4244] ab109201

Recombinant RabMAb

★★★★☆ 4 Abreviews 14 References 3 Images

Overview

Product name	Anti-CD81 antibody [EPR4244]
Description	Rabbit monoclonal [EPR4244] to CD81
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human CD81 aa 150-250. The exact sequence is proprietary. Database link: P60033
Positive control	WB: Ramos, JAR, U87-MG, IM-9, peripheral blood mononuclear cell (PBMC), C6, PC-12, and RAW264.7 cell lysates.

General notes

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a [recombinant rabbit monoclonal antibody](#).

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. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4244
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab109201** in the following tested applications.

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

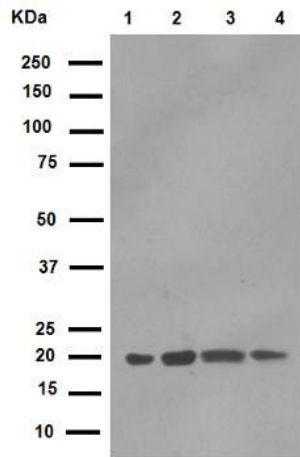
Application	Abreviews	Notes
WB	★★★★☆	1/1000 - 1/10000. Predicted molecular weight: 26 kDa. For unpurified use at 1/500 - 1/1000.

Application notes Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

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.

Images



Western blot - Anti-CD81 antibody [EPR4244] (ab109201)

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

Lane 1 : Ramos cell lysate

Lane 2 : U87-MG cell lysate

Lane 3 : PC-12 cell lysate

Lane 4 : Raw264.7 cell lysate

Lysates/proteins at 10 µg per lane.

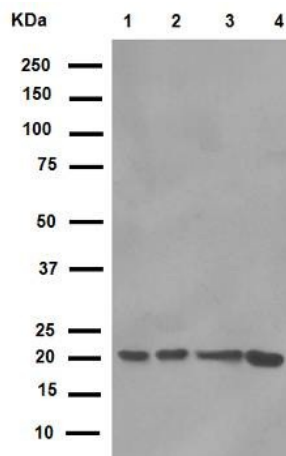
Secondary

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

Predicted band size: 26 kDa

Observed band size: 20 kDa

[why is the actual band size different from the predicted?](#)



Western blot - Anti-CD81 antibody [EPR4244] (ab109201)

All lanes : Anti-CD81 antibody [EPR4244] (ab109201) at 1/2000 dilution (purified)

Lane 1 : Ramos cell lysate

Lane 2 : U87-MG cell lysate

Lane 3 : PC-12 cell lysate

Lane 4 : Raw264.7 cell lysate

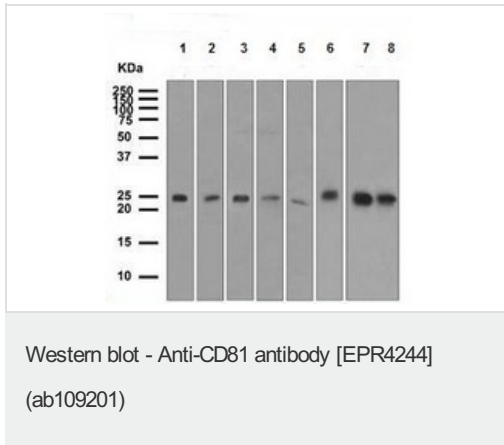
Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 26 kDa

Observed band size: 20 kDa [why is the actual band size different from the predicted?](#)



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

Lane 1 : Ramos cell lysate

Lane 2 : JAR cell lysate

Lane 3 : U87-MG cell lysate

Lane 4 : IM-9 cell lysate

Lane 5 : Peripheral blood mononuclear cell (PBMC) cell lysate

Lane 6 : C6 cell lysate

Lane 7 : PC-12 cell lysate

Lane 8 : RAW264.7 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab6721)

Predicted band size: 26 kDa

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

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