abcam

Product datasheet

Anti-CCR7 antibody [Y59] ab32527

Recombinant RabMAb

12 Abreviews 31 References 6 Images

Overview

Product name	Anti-CCR7 antibody [Y59]
Description	Rabbit monoclonal [Y59] to CCR7
Host species	Rabbit
Specificity	The antibody does not cross-react with other G-protein coupled receptor 1 family members.
Tested applications	**Suitable for:** WB, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human, Rhesus monkey
Immunogen	Synthetic peptide within Human CCR7 (N terminal). The exact sequence is proprietary. Database link: P32248 (Peptide available as ab209386)
Positive control	WB: MCF7, K562, Daudi, COS-1, C6, RAW 264.7 and PC-12 cell lysates. ICC/IF: Jurkat and HeLa cells. IP: MCF7 whole cell lysate.
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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	Y59
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab32527** in the following tested applications.

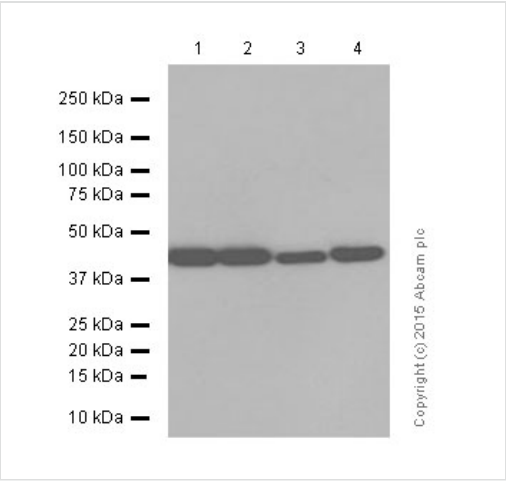
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	1/10000. Detects a band of approximately 48 kDa (predicted molecular weight: 43 kDa).Can be blocked with CCR7 peptide (ab209386). **For unpurified use at 1/5000.**
ICC/IF		1/100. **For unpurified use at 1/250.**
IP		1/20. **For unpurified use at 1/10.**

Target

Function	Receptor for the MIP-3-beta chemokine. Probable mediator of EBV effects on B-lymphocytes or of normal lymphocyte functions.
Tissue specificity	Expressed in various lymphoid tissues and activated B- and T-lymphocytes, strongly up-regulated in B-cells infected with Epstein-Barr virus and T-cells infected with herpesvirus 6 or 7.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family.
Cellular localization	Cell membrane.

Images



Western blot - Anti-CCR7 antibody [Y59] (ab32527)

All lanes : Anti-CCR7 antibody [Y59] (ab32527) at 1/10000 dilution (purified)

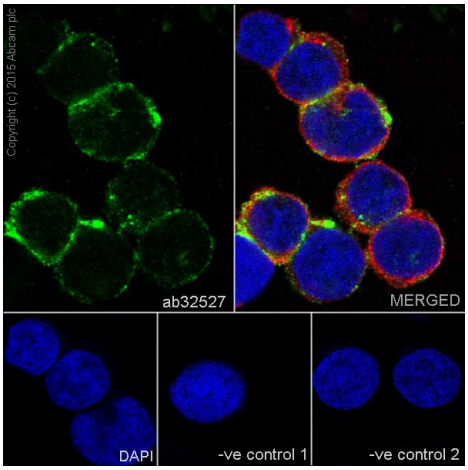
Lane 1 : COS-1 (african green monkey kidney fibroblast-like cell line) cell lysate
Lane 2 : C6 (rat glial tumor cell line) cell lysate
Lane 3 : RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) cell lysate
Lane 4 : PC-12 (rat adrenal gland pheochromocytoma cell line) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 43 kDa

Blocking buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM /TBST.

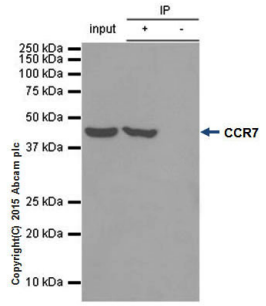


Immunocytochemistry/ Immunofluorescence - Anti-CCR7 antibody [Y59] (ab32527)

Immunocytochemistry/Immunofluorescence analysis of Jurkat (human T cell leukemia cell line from peripheral blood) cells labelling CCR7 with purified ab32527 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/100) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).

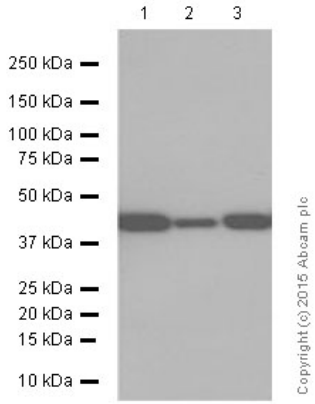


Immunoprecipitation - Anti-CCR7 antibody [Y59] (ab32527)

ab32527 (purified) at 1/20 immunoprecipitating CCR7 in MCF7 (human breast adenocarcinoma cell line) whole cell lysate. 10 ug of cell lysate was present in the input. For western blotting, a HRP-conjugated Veriblot for IP Detection Reagent (ab131366) (1/10,000) was used for detection. A rabbit monoclonal IgG (ab172730) was used intead of ab128913 as a negative control (Lane 3).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-CCR7 antibody [Y59] (ab32527)

All lanes : Anti-CCR7 antibody [Y59] (ab32527) at 1/10000 dilution (purified)

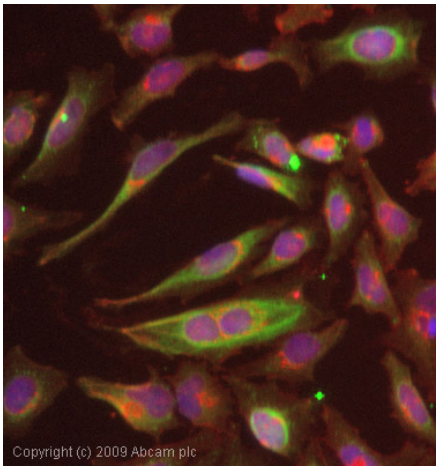
Lane 1 : MCF7 (human breast adenocarcinoma cell line) cell lysate
Lane 2 : K562 (human chronic myelogenous leukemia cell line from bone marrow) cell lysate
Lane 3 : Daudi (human Burkitt's lymphoma cell line) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

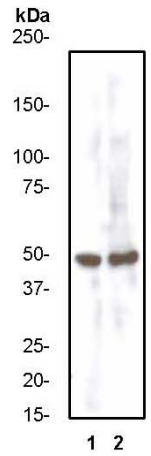
Predicted band size: 43 kDa

Blocking buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM /TBST.



Immunocytochemistry/ Immunofluorescence - Anti-CCR7 antibody [Y59] (ab32527)

Immunocytochemistry/Immunofluorescence analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) cells labelling CCR7 with unpurified ab32527 at 1/1000. Cells were fixed with 4% PFA fixed (10 min) and permeabilized and blocked with 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with the antibody (ab32527, 1µg/ml) overnight at +4°C. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (shown in green). Alexa Fluor® 594 WGA was used to label plasma membranes (shown in red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue).



Western blot - Anti-CCR7 antibody [Y59] (ab32527)

All lanes : Anti-CCR7 antibody [Y59] (ab32527) at 1/5000 dilution (unpurified)

Lane 1 : K562 (human chronic myelogenous leukemia cell line from bone marrow) cell lysate
Lane 2 : Daudi (human Burkitt's lymphoma cell line) cell lysate

Predicted band size: 43 kDa
Observed band size: 48 kDa
why is the actual band size different from the predicted?

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors