abcam

Product datasheet

Anti-CD168 antibody [EPR4054] ab124729

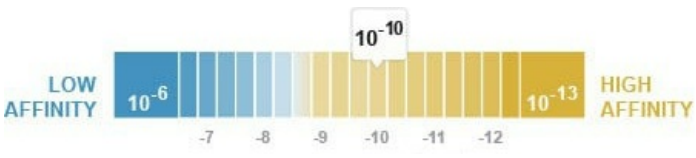
KO VALIDATED Recombinant RabMAb

★★★★★ 2 Abreviews 13 References 8 Images

Overview

Product name	Anti-CD168 antibody [EPR4054]
Description	Rabbit monoclonal [EPR4054] to CD168
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-P **Unsuitable for:** Flow Cyt or ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human CD168 aa 1-100. The exact sequence is proprietary.
Positive control	Lysates of: MDA-MB-435, LnCaP, T47-D, RAW264.7, PC-12. Human testis tissue
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
Dissociation constant (K_D)	$K_D = 1.23 \times 10^{-10}$ M  Learn more about K_D
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4054
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124729 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)	1/1000. Predicted molecular weight: 84 kDa. **For unpurified use at 1/1000 - 1/10000.** The mouse and rat recommendation is based on the WB results. This antibody may not be suitable for IHC with mouse or rat samples.
IP		1/10 - 1/100.
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. **For unpurified use at 1/50 - 1/100.** Antigen retrieval is recommended

Application notes Is unsuitable for Flow Cyt or ICC/IF.

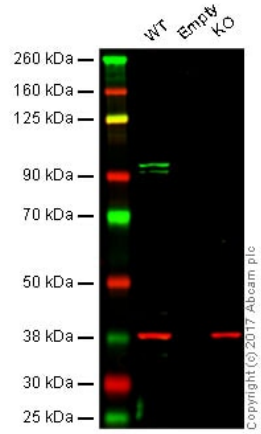
Target

Function Involved in cell motility. When hyaluronan binds to HMMR, the phosphorylation of a number of proteins, including the focal adhesion kinase occurs. May also be involved in cellular transformation and metastasis formation, and in regulating extracellular-regulated kinase (ERK) activity.

Tissue specificity Expressed in breast cancer cell lines and in normal breast tissue.

Cellular localization Cell surface. Cytoplasm.

Images



Western blot - Anti-CD168 antibody [EPR4054] (ab124729)

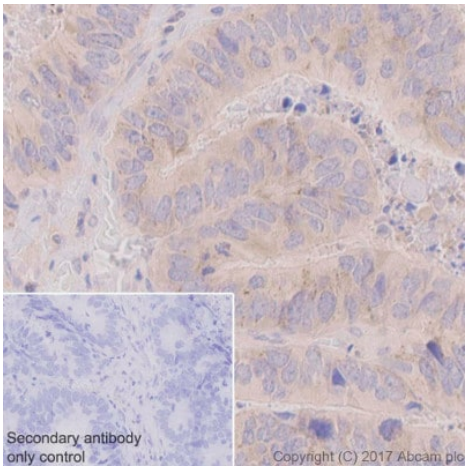
Lane 1: Wild type HAP1 whole cell lysate (20 µg)

Lane 2: Empty

Lane 3: CD168 knockout HAP1 whole cell lysate (20 µg)

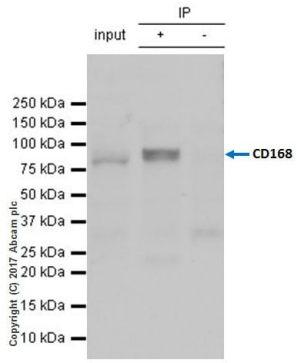
Lanes 1 - 3: Merged signal (red and green). Green - ab124729 observed at 90 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab124729 was shown to specifically react with CD168 when CD168 knockout samples were used. Wild-type and CD168 knockout samples were subjected to SDS-PAGE. Ab124729 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at a 1/1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4054] (ab124729)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human gastric carcinoma tissue sections labeling CD168 with purified ab124729 at 1:250 dilution (7.7 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, pH9.0. Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunoprecipitation - Anti-CD168 antibody [EPR4054] (ab124729)

ab124729 (purified) at 1:100 dilution (2ug) immunoprecipitating CD168 in MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysate.

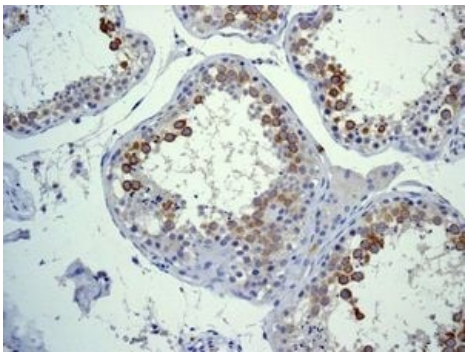
Lane 1 (input): MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10ug

Lane 2 (+): ab124729 & MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab124729 in MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

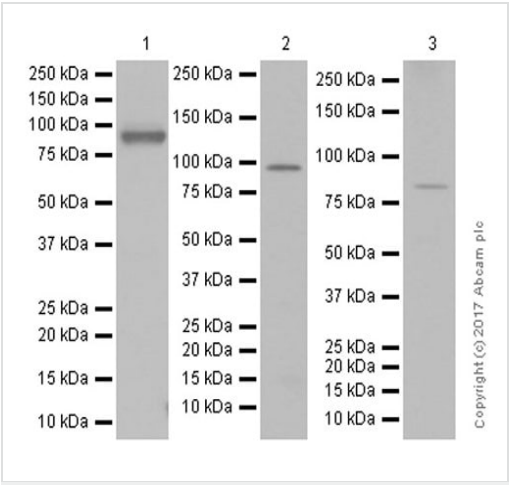
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4054] (ab124729)

Immunohistochemical analysis of paraffin-embedded human testis tissue using unpurified ab124729 at 1/50 - 1/100 dilution



Western blot - Anti-CD168 antibody [EPR4054] (ab124729)

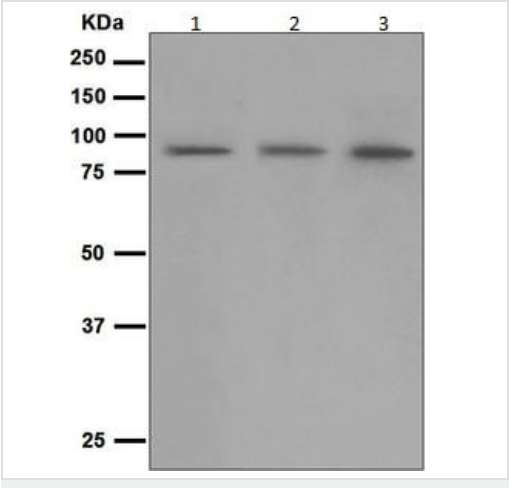
All lanes : Anti-CD168 antibody [EPR4054] (ab124729) at 1/1000 dilution (purified)

Lane 1 : MDA-MB-435 (Human mammary gland ductal carcinoma melanocyte) whole cell lysates at 20 µg
Lane 2 : RAW264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysates at 15 µg
Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates at 15 µg

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 84 kDa

5% NFDM/TBST



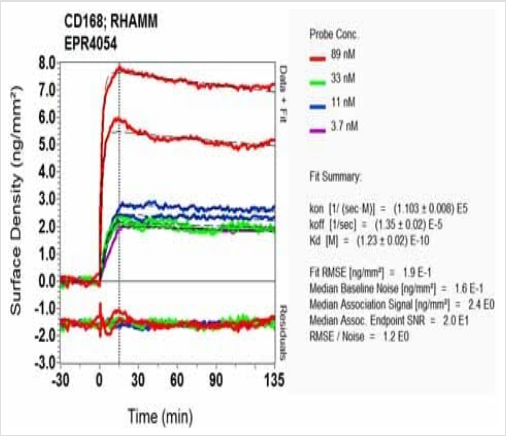
Western blot - Anti-CD168 antibody [EPR4054] (ab124729)

All lanes : Anti-CD168 antibody [EPR4054] (ab124729)

Lane 1 : MDA-MB-435 cell lysate
Lane 2 : LnCaP cell lysate
Lane 3 : T47-D cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 84 kDa

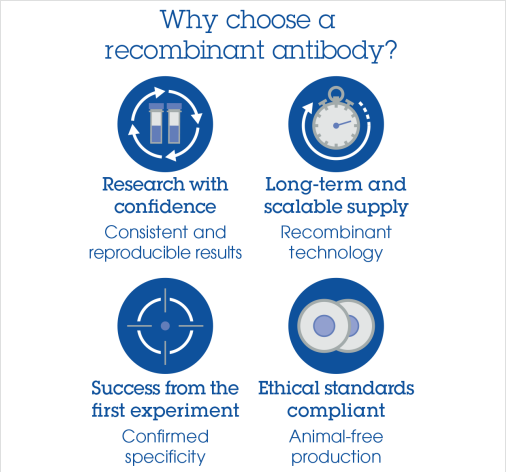


OI-RD Scanning - Anti-CD168 antibody [EPR4054] (ab124729)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-CD168 antibody [EPR4054] (ab124729)

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