

Anti-CD168 antibody [EPR4054] - BSA and Azide free ab271887

KO VALIDATED

Recombinant

RabMAb

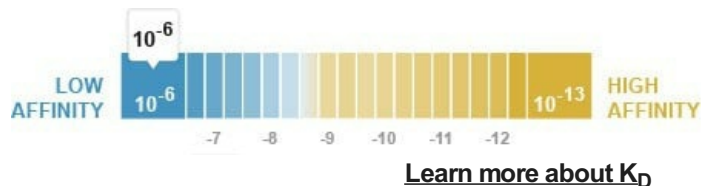
8 Images

Overview

Product name	Anti-CD168 antibody [EPR4054] - BSA and Azide free
Description	Rabbit monoclonal [EPR4054] to CD168 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, IP, WB Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IP: MCF-7. IHC-P: Human gastric carcinoma tissue. Human testis tissue.
General notes	<p>ab271887 is the carrier-free version of ab124729.</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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	$K_D = 1.23 \times 10^{-6}$ M



Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4054
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab271887 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
IHC-P		Use at an assay dependent concentration. Antigen retrieval is recommended
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 84 kDa. The mouse and rat recommendation is based on the WB results. This antibody may not be suitable for IHC with mouse or rat samples.

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.

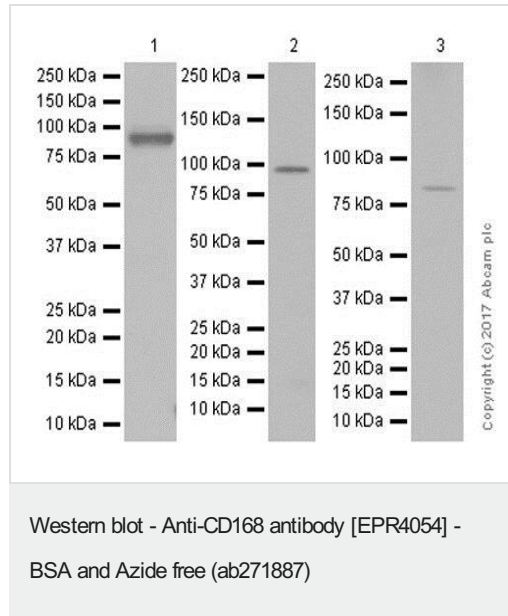
Tissue specificity

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

Cellular localization

Cell surface. Cytoplasm.

Images



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

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

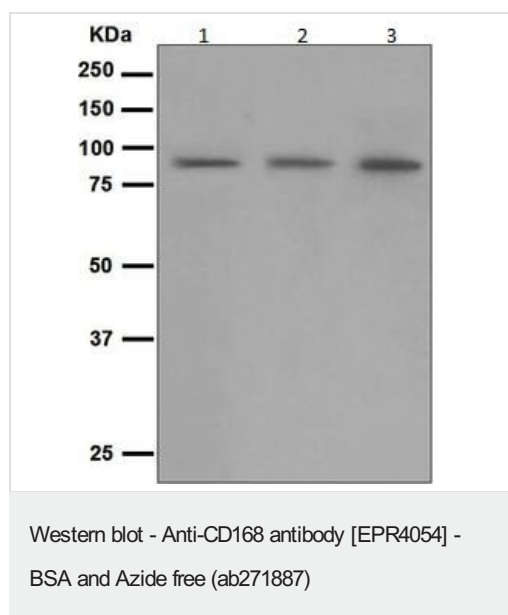
Secondary

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

Predicted band size: 84 kDa

This data was developed using [ab124729](#), the same antibody clone in a different buffer formulation:

5% NFDm/TBST



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

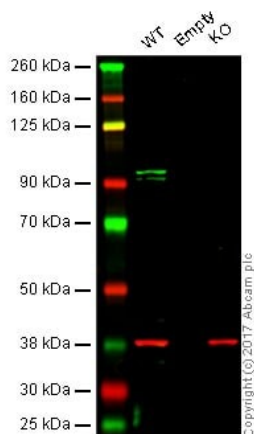
Lane 1 : MDA-MB-435 cell lysate

Lane 2 : LnCaP cell lysate

Lane 3 : Sample: T47-D cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 84 kDa



Western blot - Anti-CD168 antibody [EPR4054] - BSA and Azide free (ab271887)

This data was developed using [ab124729](#), the same antibody clone in a different buffer formulation:

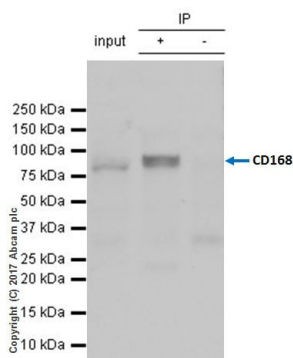
Lane 1: Wild type HAP1 whole cell lysate (20 µg)

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.



Immunoprecipitation - Anti-CD168 antibody [EPR4054] - BSA and Azide free (ab271887)

[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

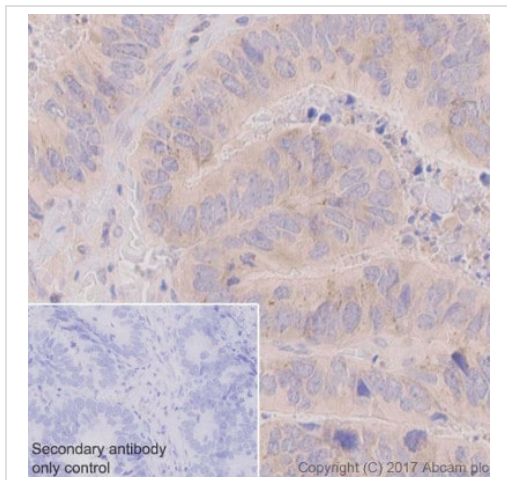
Lane 2 (+): [ab124729](#) & MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

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.

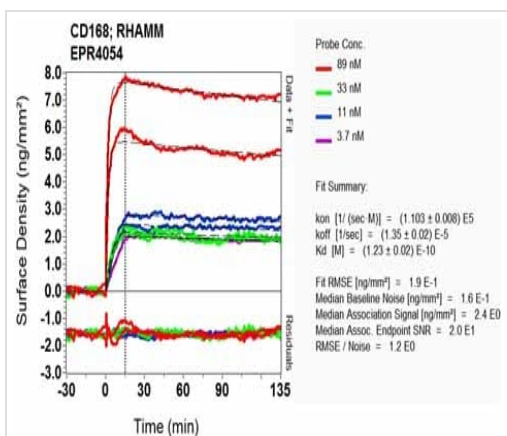
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab124729](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4054] - BSA and Azide free (ab271887)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124729**).



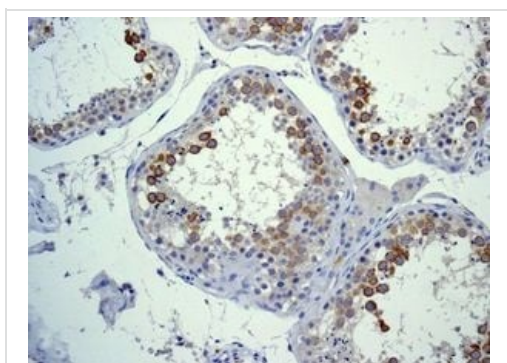
OI-RD Scanning - Anti-CD168 antibody [EPR4054] - BSA and Azide free (ab271887)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124729**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4054] - BSA and Azide free (ab271887)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124729**).

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

Anti-CD168 antibody [EPR4054] - BSA and Azide free (ab271887)

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

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