

# Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free ab229447

KO VALIDATED Recombinant RabMAb

11 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free   |
| <b>Description</b>         | Rabbit monoclonal [EPR4055] to CD168 - Low endotoxin, Azide free  |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB, IP, IHC-P<br><b>Unsuitable for:</b> ICC/IF   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| <b>Positive control</b>    | T47-D MCF-7, SKBR-3 and LnCaP cell lysate Paraffin-embedded human breast carcinoma tissue Paraffin-embedded human testis tissue IP: T-47D whole cell lysate.  |
| <b>General notes</b>       | <p>ab229447 is the carrier-free version of <a href="#">ab108339</a>.</p> <p>Our <b>carrier-free</b> 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 <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;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<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> 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"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p> |

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Our **Low endotoxin, azide-free formats** have low endotoxin level ( $\leq 1$  EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

## Properties

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|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| <b>Storage buffer</b>       | pH: 7.20<br>Constituent: PBS                  |
| <b>Carrier free</b>         | Yes   |
| <b>Purity</b>               | Protein A purified                            |
| <b>Clonality</b>            | Monoclonal                                    |
| <b>Clone number</b>         | EPR4055                                       |
| <b>Isotype</b>              | IgG   |

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab229447 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   |
|--------------|-----------|---|
| <b>WB</b>    |           | Use at an assay dependent concentration. Predicted molecular weight: 84 kDa.  |
| <b>IP</b>    |           | Use at an assay dependent concentration.  |
| <b>IHC-P</b> |           | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

**Application notes** Is unsuitable for ICC/IF.

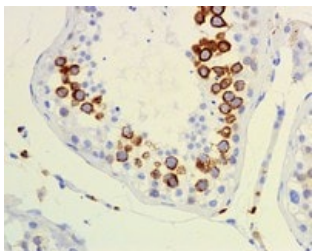
## Target

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|                              |   |
|------------------------------|---|
| <b>Function</b>              | 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. |
| <b>Tissue specificity</b>    | Expressed in breast cancer cell lines and in normal breast tissue.  |
| <b>Cellular localization</b> | Cell surface. Cytoplasm.  |

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## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free (ab229447)

**ab108339**, at 1/100, staining CD168 in paraffin-embedded human testis tissue by Immunohistochemistry.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108339**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free (ab229447)

This data was developed using **ab108339**, the same antibody clone in a different buffer formulation.

Purified **ab108339** at 1/50 dilution (2µg) immunoprecipitating CD168 in T-47D whole cell lysate.

Lane 1 (input): T-47D (Human ductal breast epithelial tumor epithelial cell) whole cell lysate 10µg

Lane 2 (+): **ab108339** + T-47D whole cell lysate.

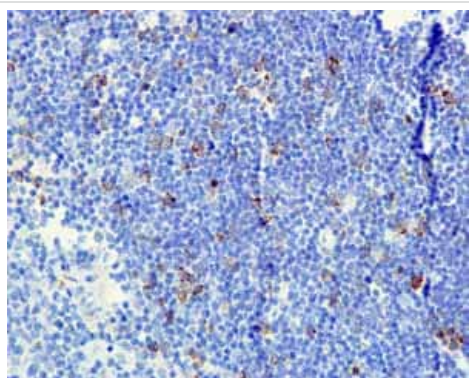
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab108339** in T-47D whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 85 kDa

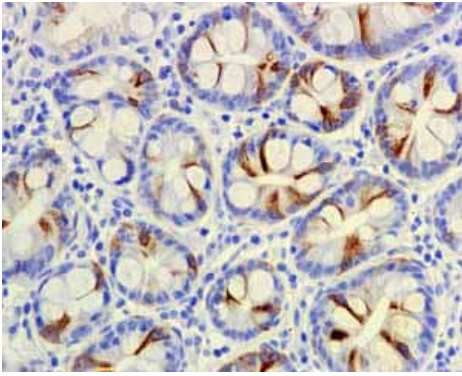


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free (ab229447)

**ab108339** showing positive staining in Normal thymus tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108339**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

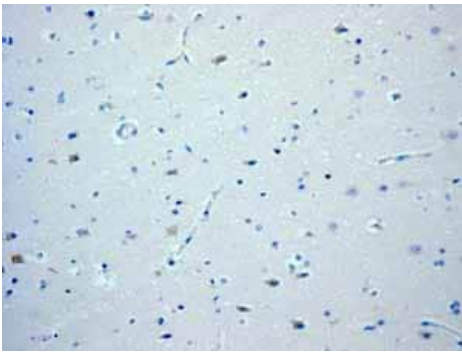


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free (ab229447)

**ab108339** showing positive staining in Normal stomach tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108339**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

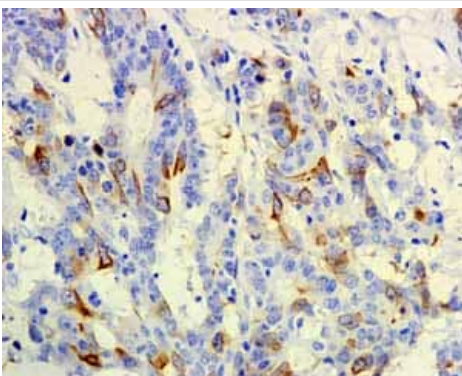


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free (ab229447)

**ab108339** showing negative staining in Normal brain tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108339**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

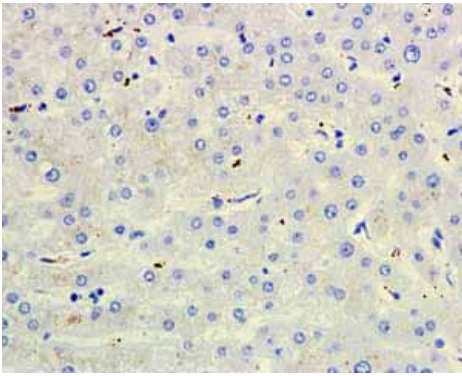


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free (ab229447)

**ab108339** showing positive staining in Colonic adenocarcinoma tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108339**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

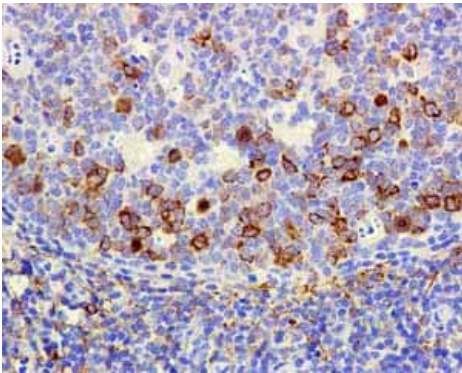


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody  
[EPR4055] - Low endotoxin, Azide free (ab229447)

**ab108339** showing negative staining in Normal liver tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108339**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

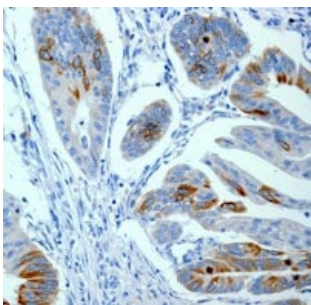


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody  
[EPR4055] - Low endotoxin, Azide free (ab229447)

**ab108339** showing positive staining in Normal tonsil tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108339**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

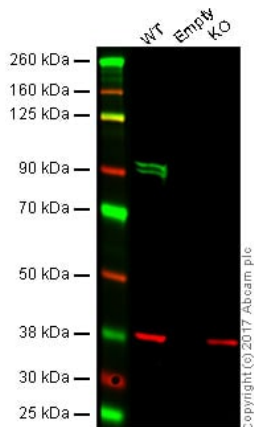


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD168 antibody  
[EPR4055] - Low endotoxin, Azide free (ab229447)

This IHC data was generated using the same anti-CD168 antibody clone, EPR4055, in a different buffer formulation (**ab108339**).

**ab108339**, at 1/100, staining CD168 in paraffin-embedded human breast carcinoma tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free (ab229447)

This WB data was generated using the same anti-CD168 antibody clone, EPR4055, in a different buffer formulation (cat# [ab108339](#)).

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





**Lane 2:** Empty knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** CD168 whole cell lysate (20 µg)

**Lanes 1 - 3:** Merged signal (red and green). Green - [ab108339](#) observed at 90 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

[ab108339](#) was shown to specifically react with CD168 when CD168 knockout samples were used. Wild-type and Empty knockout samples were subjected to SDS-PAGE. Ab108339 and [ab9484](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 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.

### Why choose a recombinant antibody?

|   |   |
|---|---|
| <br><b>Research with confidence</b><br>Consistent and reproducible results | <br><b>Long-term and scalable supply</b><br>Recombinant technology |
| <br><b>Success from the first experiment</b><br>Confirmed specificity      | <br><b>Ethical standards compliant</b><br>Animal-free production   |

Anti-CD168 antibody [EPR4055] - Low endotoxin, Azide free (ab229447)

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