**Overview**

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-MRC2/ENDO180 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to MRC2/ENDO180</td>
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<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: WB, IHC-P, ICC/IF</td>
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<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.</td>
</tr>
<tr>
<td><strong>General notes</strong></td>
<td>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.40  
Preservative: 0.02% Sodium azide  
Constituents: 0.87% Sodium chloride, 50% Glycerol, PBS  
Without Mg2+ and Ca2+ |
| **Purity**   | Immunogen affinity purified   |
| **Purification notes** | ab70132 was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen. |
| **Clonality**| Polyclonal                    |
| **Isotype**  | IgG                           |

**Applications**
The Abpromise guarantee

Our Abpromise guarantee covers the use of ab70132 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐ (1)</td>
<td></td>
</tr>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐ (1)</td>
<td></td>
</tr>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐ (1)</td>
<td></td>
</tr>
</tbody>
</table>

Application notes

ELISA: 1/20000.
Flow Cyt: 1/5 (Abreview).
ICC/IF: 1/500 - 1/1000.
IHC-P: 1/50 - 1/100.
WB: 1/500 - 1/1000. Detects a band of approximately 167 kDa (predicted molecular weight: 167 kDa).

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function
May play a role as endocytotic lectin receptor displaying calcium-dependent lectin activity. Internalizes glycosylated ligands from the extracellular space for release in an endosomal compartment via clathrin-mediated endocytosis. May be involved in plasminogen activation system controlling the extracellular level of PLAU/PLAU, and thus may regulate protease activity at the cell surface. May contribute to cellular uptake, remodeling and degradation of extracellular collagen matrices. May play a role during cancer progression as well as in other chronic tissue destructive diseases acting on collagen turnover. May participate in remodeling of extracellular matrix co-operating with the matrix metalloproteinases (MMPs).

Tissue specificity

Sequence similarities
Contains 8 C-type lectin domains.
Contains 1 fibronectin type-II domain.
Contains 1 ricin B-type lectin domain.

Domain
C-type lectin domains 3 to 8 are not required for calcium-dependent binding of mannose, fucose and N-acetylglucosamine. C-type lectin domain 2 is responsible for sugar-binding in a calcium-dependent manner.
Fibronectin type-II domain mediates collagen-binding.
Ricin B-type lectin domain contacts with the second C-type lectin domain.

Post-translational modifications
N-glycosylated.

Cellular localization
Membrane.

Images
**Western blot - Anti-MRC2/ENDO180 antibody (ab70132)**

**All lanes**: Anti-MRC2/ENDO180 antibody (ab70132) at 1/500 dilution

**Lane 1**: 293 cell extracts

**Lane 2**: 293 cell extracts with immunising peptide at 5 µg

Lysates/proteins at 5 µg per lane.

**Predicted band size**: 167 kDa

**Observed band size**: 167 kDa

ab70132, at a 1/500 dilution, staining MRC2/ENDO180 in HepG2 cells by Immunofluorescence, in the absence or presence of the immunising peptide.

**Immunocytochemistry/ Immunofluorescence - Anti-MRC2/ENDO180 antibody (ab70132)**

ab70132, at a 1/50 dilution, staining MRC2/ENDO180 in paraffin embedded human brain tissue by Immunohistochemistry, in the absence or presence of the immunising peptide.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MRC2/ENDO180 antibody (ab70132)**
ab70132 staining MRC2/ENDO180 in Human pancreatic cancer tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with Inhibitor CM for 4 minutes at 37°C; antigen retrieval was by heat mediation in Tris/Borate/EDTA buffer pH 8. Samples were incubated with primary antibody (1/50) for 32 minutes at 37°C. An undiluted HRP-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.

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