**Product name**
Anti-GC1q R antibody [EPR8871] [ab131284]

**Description**
Rabbit monoclonal [EPR8871] to GC1q R

**Host species**
Rabbit

**Tested applications**
*Suitable for:* WB, IHC-P
*Unsuitable for:* Flow Cyt, ICC or IP

**Species reactivity**
Reacts with: Mouse, Rat, Human

**Immunogen**
Synthetic peptide within Human GC1q R aa 200-300. The exact sequence is proprietary.

**Positive control**
WB: HeLa, 293T, Jurkat, and Raji cell lysates. Human, mouse and rat heart tissue lysates. IHC-P: Human kidney tissue and Human tonsil 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.

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.

**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.
Stable for 12 months at -20°C.

**Dissociation constant (K_D)**

\[ K_D = 4.00 \times 10^{-12} \, \text{M} \]

**Storage buffer**

pH: 7.20  
Preservative: 0.01% Sodium azide  
Constituents: PBS, 40% Glycerol, 0.05% BSA

**Purity**

Tissue culture supernatant

**Clonality**

Monoclonal

**Clone number**

EPR8871

**Isotype**

IgG

**Applications**

Our Abpromise guarantee covers the use of ab131284 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>IHC-P</td>
<td>1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
<td></td>
</tr>
</tbody>
</table>

**Application notes**

Is unsuitable for Flow Cyt, ICC or IP.

**Target**

**Function**

Binds to the globular "heads" of C1Q thus inhibiting C1 activation.

**Sequence similarities**

Belongs to the MAM33 family.

**Cellular localization**

Mitochondrion matrix. Nucleus. Might also be nuclear in some cell types.
Western blot - Anti-GC1q R antibody [EPR8871] (ab131284)

All lanes: Anti-GC1q R antibody [EPR8871] (ab131284) at 0.01 µg/ml (purified)

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Human heart lysates
Lane 3: Mouse heart lysates
Lane 4: Rat heart lysates

Lysates/proteins at 15 µg per lane.

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

Predicted band size: 31 kDa

Blocking and diluting buffer: 5% NFDM/TBST

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat kidney tissue sections labeling GC1q R with Purified ab131284 at 1:250 dilution (0.43 µg/ml). Heat mediated antigen retrieval was performed using Citrate buffer (pH 6.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse kidney tissue sections labeling GC1q R with Purified ab131284 at 1:250 dilution (0.43 µg/ml). Heat mediated antigen retrieval was performed using Citrate buffer (pH 6.0). ImmunohistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast cancer tissue sections labeling GC1q R with Purified ab131284 at 1:250 dilution (0.43 µg/ml). Heat mediated antigen retrieval was performed using Citrate buffer (pH 6.0). ImmunohistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
All lanes: Anti-GC1q R antibody [EPR8871] (ab131284) at 1/1000 dilution (unpurified)

Lane 1: HeLa cell lysate
Lane 2: 293T cell lysate
Lane 3: Jurkat cell lysate
Lane 4: Raji cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 31 kDa

Immunohistochemical analysis of paraffin-embedded human kidney tissue labelled with unpurified ab131284 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Immunohistochemical analysis of paraffin-embedded human tonsil tissue labelled with unpurified ab131284 at 1/100 dilution.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GC1q R antibody [EPR8871] (ab131284)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

Other - Anti-GC1q R antibody [EPR8871] (ab131284)

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

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