### Product datasheet

**Anti-Myelin oligodendrocyte glycoprotein antibody ab32760**

<table>
<thead>
<tr>
<th>Overview</th>
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</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Anti-Myelin oligodendrocyte glycoprotein antibody</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to Myelin oligodendrocyte glycoprotein</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-FoFr, IP</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Mouse, Rat</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide conjugated to KLH derived from within residues 200 to the C-terminus of Rat Myelin oligodendrocyte glycoprotein. Read Abcam's proprietary immunogen policy (Peptide available as ab32759.)</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>Mouse Brain Whole Tissue Lysate and Rat Brain Whole Tissue Lysate.</td>
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<table>
<thead>
<tr>
<th>Properties</th>
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<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</td>
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<tr>
<td><strong>Storage buffer</strong></td>
<td>Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
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</table>

**Applications**

Our Abpromise guarantee covers the use of ab32760 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
Mediates homophilic cell-cell adhesion (By similarity). Minor component of the myelin sheath. May be involved in completion and/or maintenance of the myelin sheath and in cell-cell communication.

**Tissue specificity**
Found exclusively in the CNS, where it is localized on the surface of myelin and oligodendrocyte cytoplasmic membranes.

**Sequence similarities**
Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 1 Ig-like V-type (immunoglobulin-like) domain.

**Cellular localization**
Cell membrane.

**Application** | **Abreviews** | **Notes**
--- | --- | ---
**WB** | | Use a concentration of 1 µg/ml. Detects a band of approximately 27 kDa (predicted molecular weight: 27 kDa). Can be blocked with Rat Myelin oligodendrocyte glycoprotein peptide (ab32759).

**IHC-FoFr** | | Use at an assay dependent concentration. PubMed: 22269040

**IP** | | Use a concentration of 5 µg/ml.

**Target**

**Function**
Mediates homophilic cell-cell adhesion (By similarity). Minor component of the myelin sheath. May be involved in completion and/or maintenance of the myelin sheath and in cell-cell communication.

**Tissue specificity**
Found exclusively in the CNS, where it is localized on the surface of myelin and oligodendrocyte cytoplasmic membranes.

**Sequence similarities**
Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 1 Ig-like V-type (immunoglobulin-like) domain.

**Cellular localization**
Cell membrane.

**Images**

**Western blot** - Anti-Myelin oligodendrocyte glycoprotein antibody (ab32760)

**All lanes**: Anti-Myelin oligodendrocyte glycoprotein antibody (ab32760) at 1 µg/ml

**Lane 1**: Mouse Brain Whole Tissue Lysate
**Lane 2**: Rat Brain Whole Tissue Lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes**: IR Dye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/15000 dilution

Performed under reducing conditions.

**Predicted band size**: 27 kDa
**Observed band size**: 27 kDa
Ab32760 used on Mouse Cortex and Hippocampus in free floating sections using direct fluorescence. The tissues were fixed (animals perfused fixed) with 4% PFA and later postfixed overnight in the same fixative. They were cryoprotected in 30% sucrose and cut using a cryostat.

Myelin oligodendrocyte glycoprotein was immunoprecipitated using 0.5mg Mouse Brain tissue lysate, 5µg of Rabbit polyclonal to Myelin oligodendrocyte glycoprotein and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min. Mouse Brain tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab32760.

Band: 27kDa: Myelin oligodendrocyte glycoprotein

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