**Product datasheet**

**Anti-Ionotropic glutamate receptor 2 + 3 antibody [EP929Y] ab52896**

<table>
<thead>
<tr>
<th>Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Host species</strong></td>
</tr>
<tr>
<td><strong>Specificity</strong></td>
</tr>
</tbody>
</table>
| **Tested applications** | Suitable for: WB  
Unsuitable for: Flow Cyt,ICC/IF or IHC-P |
| **Species reactivity** | Reacts with: Mouse, Rat, Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | WB: Human brain and fetal tissue lysates and mouse and rat brain tissue lysates. |
| **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.

**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. |
| Storage buffer | pH: 7.20  
Preservative: 0.01% Sodium azide  
Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| Purity | Protein A purified |
Clonality            Monoclonal
Clone number         EP929Y
Isotype              IgG

Applications

The Abpromise guarantee  Our Abpromise guarantee covers the use of ab52896 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></td>
<td>1/2000 - 1/5000. Detects a band of approximately 98 kDa (predicted molecular weight: 98 kDa).</td>
</tr>
</tbody>
</table>

Application notes  Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

Relevance  Ion channels activated by glutamate are typically divided into two classes. Those sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR) while those activated by a-amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as AMPA receptors (AMPAR). AMPAR are comprised of four distinct Glutamate Receptor Subunits (GluR1-4) and they play key roles in almost all excitatory neurotransmission in the brain. The GluR2 subunit is widely expressed throughout the nervous system where it is thought to play key roles in synaptic plasticity and learning and memory.

Cellular localization  Cell Membrane; multi-pass membrane protein.

Images

All lanes : Anti-ionotropic glutamate receptor 2 + 3 antibody [EP929Y] (ab52896) at 1/10000 dilution (purified)

Lane 1 : Mouse brain tissue lysate
Lane 2 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 98 kDa
Observed band size: 100 kDa
Blocking and dilution buffer: 5% NFDM /TBST.

Anti-lonotrophic glutamate receptor 2 + 3 antibody [EP929Y] (ab52896) at 1/2000 dilution (purified) + Human fetal brain tissue lysate at 10 µg

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

**Predicted band size:** 98 kDa
**Observed band size:** 100 kDa

Blocking and dilution buffer: 5% NFDM /TBST.

Anti-lonotrophic glutamate receptor 2 + 3 antibody [EP929Y] (ab52896) at 1/5000 dilution (unpurified) + Human brain tissue lysate at 10 µg

**Secondary**
HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

**Predicted band size:** 98 kDa
**Observed band size:** 98 kDa
Anti-Ionotropic glutamate receptor 2 + 3 antibody
[EP929Y] (ab52896)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors