**Product datasheet**

**Anti-PUMA antibody [EP512Y] ab33906**

**Overview**

- **Product name**: Anti-PUMA antibody [EP512Y]
- **Description**: Rabbit monoclonal [EP512Y] to PUMA
- **Host species**: Rabbit
- **Specificity**: This antibody is specific for both the alpha and beta isoforms of PUMA. Isoform B is primarily recognized on Western blot gel.
- **Tested applications**: Suitable for: Flow Cyt, WB, IHC-P, ICC/IF
- **Species reactivity**: Reacts with: Human
- **Immunogen**: Synthetic peptide within Human PUMA aa 150 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: Q9BXH1 (Peptide available as ab206123)
- **Positive control**: K562 cell lysate, human breast carcinoma tissue, human ovary carcinoma tissue and Hela cells.
- **General notes**: Mouse: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents

This product is a recombinant rabbit monoclonal antibody.

**Properties**

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
- **Storage buffer**: pH: 7.20
  - Preservative: 0.01% Sodium azide
  - Constituents: PBS, 50% Glycerol, 0.05% BSA
- **Purity**: IgG fraction
- **Clonality**: Monoclonal
- **Clone number**: EP512Y
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab33906 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>Abviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cyt</td>
<td>★★★★★</td>
<td>1/30 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
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<tr>
<td>WB</td>
<td>★★★★★</td>
<td>1/1000 - 1/5000. Detects a band of approximately 18-24 kDa (predicted molecular weight: 21 kDa). Can be blocked with PUMA peptide (ab206123).</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★☆</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★☆</td>
<td>1/250 - 1/500.</td>
</tr>
</tbody>
</table>

Target


Tissue specificity: Ubiquitously expressed.

Sequence similarities: Belongs to the Bcl-2 family.

Cellular localization: Mitochondrion. Localized to the mitochondria in order to induce cytochrome c release.

Images

Anti-PUMA antibody [EP512Y] (ab33906) at 1/5000 dilution + K562 cell lysate.

Predicted band size: 21 kDa

Observed band size: 18 kDa

why is the actual band size different from the predicted?

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PUMA antibody [EP512Y] (ab33906) at a 1:100 dilution staining PUMA in human ovary carcinoma using Immunohistochemistry, Paraffin Embedded Tissue.
ab33906 at a 1:100 dilution staining PUMA in human breast carcinoma using Immunohistochemistry, Paraffin Embedded Tissue.

Overlay histogram showing K562 cells stained with ab33906 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab33906, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit monoclonal IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a decreased signal in K562 cells fixed with methanol (5 min)/permeabilized with 0.1% PBS-Tween used under the same conditions.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- Replacement or refund for products not performing as stated on the datasheet
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- 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

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