Overview

Product name: Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [EPR4477]
Description: Rabbit monoclonal [EPR4477] to Alkaline Phosphatase, Tissue Non-Specific
Host species: Rabbit
Tested applications: Suitable for: Flow Cyt, WB, IP, IHC-P, ICC/IF
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide within Human Alkaline Phosphatase, Tissue Non-Specific aa 1-100. The exact sequence is proprietary.
Database link: P05186
Positive control: WB: SAOS2, HepG2, HeLa, and JAR cell lysates IHC-P: Human kidney and liver tissues ICC/IF: HeLa cells
General notes: 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. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EPR4477
Isotype

**IgG**

Applications

Our **Abpromise guarantee** covers the use of **ab108337** 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>Flow Cyt</td>
<td>1/1000.</td>
<td><strong>ab172730</strong> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
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<tr>
<td>IP</td>
<td>1/10 - 1/100.</td>
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<tr>
<td>IHC-P</td>
<td>1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
<td></td>
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<tr>
<td>ICC/IF</td>
<td>1/100 - 1/500.</td>
<td></td>
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</tbody>
</table>

Target

<table>
<thead>
<tr>
<th>Function</th>
<th>This isozyme may play a role in skeletal mineralization.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Involvement in disease</td>
<td>Hypophosphatasia</td>
</tr>
<tr>
<td>Hypophosphatasia childhood type</td>
<td></td>
</tr>
<tr>
<td>Hypophosphatasia infantile type</td>
<td></td>
</tr>
<tr>
<td>Sequence similarities</td>
<td>Belongs to the alkaline phosphatase family.</td>
</tr>
<tr>
<td>Post-translational modifications</td>
<td>N-glycosylated.</td>
</tr>
<tr>
<td>Cellular localization</td>
<td>Cell membrane.</td>
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</tbody>
</table>

Images
ab108337, at a 1/250 dilution, staining Alkaline Phosphatase, Tissue Non-Specific in paraffin embedded Human liver tissue by Immunohistochemistry.

ab108337, at a 1/250 dilution, staining Alkaline Phosphatase, Tissue Non-Specific in paraffin embedded Human kidney tissue by Immunohistochemistry.

ab108337, at a 1/100 dilution, staining Alkaline Phosphatase, Tissue Non-Specific in HeLa cells by Immunofluorescence.
Overlay histogram showing Saos 2 cells stained with ab108337 (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 (ab108337, 1/1000 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 IgG (monoclonal) (0.1μg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in Saos 2 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**All lanes**: Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [EPR4477] (ab108337) at 1/10000 dilution

- **Lane 1**: SAOS2 cell lysate
- **Lane 2**: HepG2 cell lysate
- **Lane 3**: HeLa cell lysate
- **Lane 4**: JAR cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size**: 57 kDa

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

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