# Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [TRA-2-49/6E] ab17973

## Overview

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Anti-Alkaline Phosphatase, Tissue Non-Specific antibody [TRA-2-49/6E]</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Mouse monoclonal [TRA-2-49/6E] to Alkaline Phosphatase, Tissue Non-Specific</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Mouse</td>
</tr>
<tr>
<td><strong>Specificity</strong></td>
<td>The clone number has been updated from (3H414 (TRA-2-49)) to (TRA-2-49/6E) both clone numbers name the same antibody clone.</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: IHC-Fr, IHC-P, ICC/IF, Flow Cyt, IP</td>
</tr>
</tbody>
</table>
| **Species reactivity**         | Reacts with: Rabbit, Cat, Human, Pig, Chimpanzee, Gorilla, Hoolock gibbon, Orangutan, Owl monkey  
Does not react with: Mouse, Rat, Sheep, Goat, Guinea pig, Hamster, Cow, Dog, Baboon, Rhesus monkey |
| **Immunogen**                  | 2102Ep Human Embryonal Carcinoma Cells                                      |
| **General notes**              | Clone 3H414 was previously known as TRA-2-49/6E.                            |

## Properties

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<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.</td>
</tr>
</tbody>
</table>
| **Storage buffer**       | Preservative: 0.1% Sodium Azide  
Constituents: PBS, pH 7.6                                                  |
| **Purity**               | Ascites                                                                      |
| **Purification notes**   | Purified from ascites.                                                       |
| **Clonality**            | Monoclonal                                                                   |
| **Clone number**         | TRA-2-49/6E                                                                  |
| **Isotype**              | IgG1                                                                         |

## Applications
Function

This isozyme may play a role in skeletal mineralization.

Involvement in disease

Hypophosphatasia
Hypophosphatasia childhood type
Hypophosphatasia infantile type

Sequence similarities

Belongs to the alkaline phosphatase family.

Post-translational modifications

N-glycosylated.

Cellular localization

Cell membrane.

Images

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>IHC-Fr</td>
<td></td>
<td>1/50. PubMed: 23225236</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>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>1/50 - 1/200.</td>
<td>ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>IP</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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Our Abpromise guarantee covers the use of ab17973 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Undifferentiated human embryonic stem cells (H9 line) were stained with the tissue non-specific alkaline phosphatase antibody, ab17973. The cells were positive for alkaline phosphatase with staining localised on the surface membrane.

Dilution used: 1/50

Note that the feeder cells in the bottom left hand corner of the plate are not stained by this antibody.

ab17973 staining Alkaline Phosphatase, Tissue Non-Specific in human adrenal gland tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded tissue sections). The sections were fixed in paraformaldehyde prior to blocking with 10% serum for 1 hour at 20°C. The primary antibody was diluted 1/500 and incubated with the sample for 12 hours at 4°C. An HRP-conjugated rabbit anti-mouse polyclonal was used as the secondary antibody, diluted 1/200.

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