### Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-DUSP2/PAC1 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to DUSP2/PAC1</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: IHC-P, ICC/IF, WB</td>
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<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td></td>
<td>Predicted to work with: Cow</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide corresponding to Human DUSP2/PAC1 aa 251-314 (C terminal).</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>HeLa cell lysate</td>
</tr>
<tr>
<td></td>
<td>Parafomaldehyde fixed HeLa cells</td>
</tr>
<tr>
<td></td>
<td>Oral CA tissue</td>
</tr>
<tr>
<td><strong>General notes</strong></td>
<td>Keep as concentrated solution.</td>
</tr>
<tr>
<td></td>
<td>This product was previously labelled as DUSP2</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
<tr>
<td><strong>Storage buffer</strong></td>
<td>pH: 7.00</td>
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<tr>
<td></td>
<td>Preservative: 0.01% Thimerosal (merthiolate)</td>
</tr>
<tr>
<td></td>
<td>Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol</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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</tbody>
</table>

### Applications

Our Abpromise guarantee covers the use of ab137640 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function: Regulates mitogenic signal transduction by dephosphorylating both Thr and Tyr residues on MAP kinases ERK1 and ERK2.

Tissue specificity: Expressed in hematopoietic tissues.

Sequence similarities: Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily. Contains 1 rhodanese domain. Contains 1 tyrosine-protein phosphatase domain.

Cellular localization: Nucleus.

Images:

Immunohistochemical analysis of paraffin embedded Oral CA tissue, labelling DUSP2/PAC1 with ab137640 at 1/100 dilution.

Target:

<table>
<thead>
<tr>
<th>Application</th>
<th>Abviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/100 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Suggested antigen retrieval using heat mediated 10mM citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0).</td>
<td></td>
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<tr>
<td>ICC/IF</td>
<td>1/100 - 1/1000.</td>
<td></td>
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<tr>
<td>WB</td>
<td>1/500 - 1/3000. Predicted molecular weight: 34 kDa.</td>
<td></td>
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</tbody>
</table>
Anti-DUSP2/PAC1 antibody (ab137640) at 1/100 dilution + Hela whole cell lysate at 30 µg

**Predicted band size:** 34 kDa

Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, labelling DUSP2/PAC1 with ab137640 at 1/1000 dilution (left), costained with Hoechst 33342 (right).

**Please note:** All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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- 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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