**DESCRIPTION**

**Species Reactivity** Human/Mouse

**Specificity** Detects human and mouse Pin1 in Western blots.

**Source** Monoclonal Mouse IgG2B Clone # 257417

**Purification** Protein A or G purified from hybridoma culture supernatant

**Immunogen** E. coli-derived recombinant human Pin1 Ala2-Glu163 Accession # Q13526

**Formulation** Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>0.5 µg/mL</td>
</tr>
<tr>
<td>Immunocytochemistry</td>
<td>8-25 µg/mL</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>8-25 µg/mL</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>2-3 µg/500 µg cell lysate</td>
</tr>
</tbody>
</table>

**DATA**

**Western Blot**

Detection of Human/Mouse Pin1 by Western Blot. Western blot shows lysates of Balb/3T3 mouse embryonic fibroblast cell line, U2OS human osteosarcoma cell line, HeLa human cervical epithelial carcinoma cell line, MCF-7 human breast cancer cell line, and MDA-MB-453 human breast cancer cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human/Mouse Pin1 Monoclonal Antibody (Catalog # MAB2294) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Pin1 at approximately 20 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Immunocytochemistry**

Pin1 in MCF-7 Human Cell Line. Pin1 was detected in immersion fixed MCF-7 human breast cancer cell line using Mouse Anti-Human/Mouse Pin1 Monoclonal Antibody (Catalog # MAB2294) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

**Immunohistochemistry**

Pin1 in Human Breast Cancer Tissue. Pin1 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Mouse Anti-Human/Mouse Pin1 Monoclonal Antibody (Catalog # MAB2294) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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**Human/Mouse Pin1 Antibody**

Monoclonal Mouse IgG2B Clone # 257417

Catalog Number: MAB2294
Pin1 is a peptidyl-prolyl isomerase (PPI) that targets phosphorylated Ser or Thr residues followed by a Pro (S/T-P). Isomerization of phosphorylated Ser or Thr residues may alter protein confirmation and, subsequently, modify activity. Pin1 is overexpressed in many human breast cancers, and has been shown to modify numerous proteins including p53, NF-κB, c-Jun, cyclin D1, and β-catenin.