Human/Mouse Pin1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 257417

Catalog Number: MAB2294

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Pin1 in Western blots.
Source	Monoclonal Mouse IgG_{2B} 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 as a 0.2 µm filtered solution in PBS.

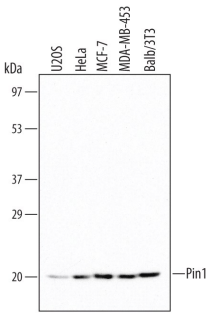
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below
Immunoprecipitation	2-3 µg/500 µg cell lysate	MCF−7 human breast cancer cell line and HeLa human cervical epithelial carcinoma cell line, see our available Western blot detection antibodies

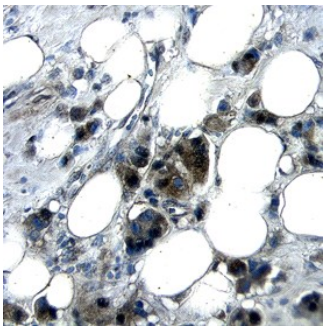
DATA

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.

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.

BACKGROUND

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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956