Human Profilin 1 Antibody

Monoclonal Mouse IgG_{2A} Clone # 816536

Catalog Number: MAB7779

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Profilin 1 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant human Profilin 2 is observed.
Source	Monoclonal Mouse IgG_{2A} Clone # 816536
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Profilin 1 Met1-Tyr140 Accession # P07737
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.

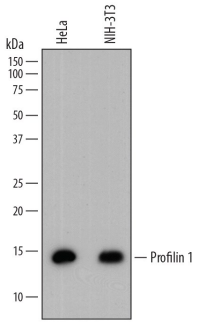
APPLICATIONS

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	0.2 µg/mL	See Below

DATA

Western Blot



Detection of Human and Mouse Profilin 1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human Profilin 1 Monoclonal Antibody (Catalog # MAB7779) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Profilin 1 at approximately 14 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

Profilin 1 (gene name PFN1) is a ubiquitous, cytoplasmic, 140 amino acid, 12-15 kDa actin monomer-binding protein. It facilitates adenine nucleotide exchange, supplying ATP for actin filament polymerization. It is phosphorylated and acetylated, and binds proline-rich sequences. Human Profilin 1 shares 96% amino acid sequence identity with mouse and rat Profilin 1.

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