bio-techne® RD SYSTEMS

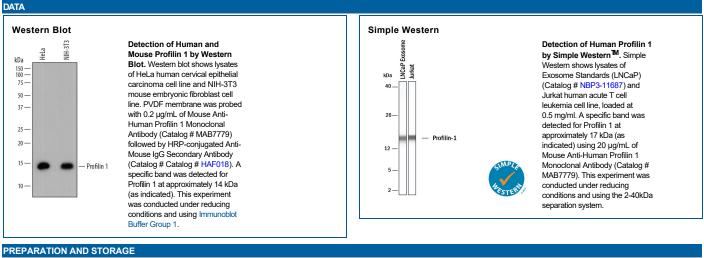
Monoclonal Mouse IgG_{2A} Clone # 816536 Catalog Number: MAB7779

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 Protein A or G purified from hybridoma culture supernatant Purification 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 either lyophilized or as a 0.2 μ m 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 |
| Simple Western | 20 µg/mL | Exosome Standards (LNCaP) (Catalog# NBP3-11687) and Jurkat human acute T cell leukemia cell line |



| Reconstitution | Sterile PBS to a final concentration of 0.5 mg/mL. For liquid material, refer to CoA for concentration. | |
|---------------------|--|--|
| Shipping | Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below. | |
| 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.

