Profilin-1 Recombinant Protein

Lysate

Cat. # PL7211
Size 100 µl

Lysate Preparation

Profilins are highly conserved, small actin-binding proteins that include Profilin-1 to -4 (PFN1-4). PFN1 is ubiquitously expressed while PFN2 is preferentially enriched in brain. The two testis-specific profilins, PFN3 and PFN4, significantly differ in primary sequence and function compared to PFN1 and PFN2. Profilin is phosphorylated at both tyrosine and serine residues *in vivo*. Tyr-129 is phosphorylated in response to VEGF-A stimulation, and this promotes profilin actin binding and polymerization. Ser-138 is phosphorylated by ROCK and dephosphorylated by PP1. This serine phosphorylation inhibits G-actin binding, as well as decreases profilin's aggregation suppressor activity by inhibiting binding to huntingtin.

Human recombinant Profilin full length protein (15 kDa) was the control treatment for Profilin phosphorylated by PKCα (PL7221). This Profilin-1 protein is detected by rabbit polyclonal anti-Profilin (a.a. 126-137) (Cat.#PP4801).

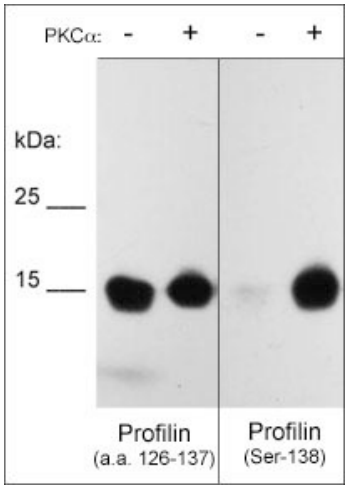
Buffer and Storage

Profilin-1 recombinant protein lysate is supplied at a concentration of 5 ng/µl in electrophoresis sample buffer (62.5 mM Tris pH 6.8, 2% SDS, 5% glycerol, 0.003% bromophenol blue, 0.9% β-mercaptoethanol). Store at –20°C. Do not boil or dilute. Stable for 1 year.

Applications

WB	10 µl/lane

End user should determine optimal quantity for their particular applications and experiments.



Western blot of human recombinant Profilin-1 control (-) or phosphorylated (+) *in vitro* with PKCα kinase. The blots were probed with anti-Profilin (a.a. 126-137) (left panel) or anti-Profilin (Ser-138) phospho-specific (right panel) antibodies at 1:1000 dilution.

Related Products

PL7221	Profilin-1 + PKCα Lysate
PP4801	Profilin (a.a. 126-137) Rabbit Polyclonal
PP4751	Profilin (Tyr-129), phospho-specific Rabbit Polyclonal
PP4821	Profilin (a.a. 132-140) Rabbit Polyclonal
PK6930	Profilin Phospho-Regulation Antibody Sampler Kit

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Rev11/26/2019