

Profilin-1 + PKCα

Lysate

Cat. # PL7221 **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 phosphorylated by PKCα in an in vitro kinase assay. The phosphorylated Profilin-1 protein is detected by rabbit polyclonal anti-Profilin (Ser-138) phospho-specific (Cat.#PP4791).

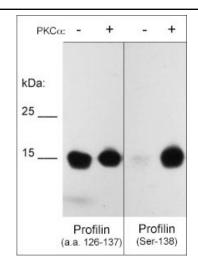
Buffer and Storage

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% βmercaptoethanol). 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.

Rev11/26/2019

Related Products

PP4801

PP4791 Profilin (Ser-138), phospho-specific Rabbit Polyclonal

Profilin (Tyr-129), phospho-specific Rabbit Polyclonal PP4751 Profilin (a.a. 126-137) Rabbit Polyclonal

PK6930 Profilin Phospho-Regulation Antibody Sampler Kit

Profilin-1 Recombinant Protein Lysate PL7211

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

www.ecmbio.com toll-free: 1-800-859-8202 info@ecmbio.com telephone: 859-879-2075