

Filesin (C3PO): sc-69691

BACKGROUND

Filesin, also referred to as CP94, CP95, CP97, is an eye lens fiber, membrane-associated, cytoskeletal intermediate filament (IF) protein that is required for the assembly of beaded filaments, cytoskeletal networks that are necessary for the long-term maintenance of optical clarity. Phakinin copolymerizes with Filesin to make up the filamentous structures present in the beaded filaments. Filesin is also crucial for lens development since it regulates lens fiber cell shape conformation and lens transparency. Filesin contains a C-terminal non- α -helical domain that contributes in several ways to its function. The head domain of Filesin includes a di-arginine/aromatic amino acid motif that contains a potential protein kinase A phosphorylation site.

REFERENCES

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SOURCE

Filesin (C3PO) is a mouse monoclonal antibody raised against lens filament of bovine origin.

PRODUCT

Each vial contains 200 μ g IgG₁ lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Filesin (C3PO) is recommended for detection of Filesin of bovine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Filesin: 115 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG λ BP-HRP: sc-516132 or m-IgG λ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG λ BP-FITC: sc-516185 or m-IgG λ BP-PE: sc-516186 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.