

Anti-Filensin Antibody (Monoclonal, FIL-7B10)

Catalog # ABO10432

Product Information

Application	WB, IHC-F
Primary Accession	Q02435
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Filensin, beaded filament structural protein 1, filensin (BFSP1) detection. Tested with WB, IHC-F in Human;bovine. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	25394
Other Names	Filensin, Beaded filament structural protein 1, Lens fiber cell beaded-filament structural protein CP 94, CP94, Bfsp1
Calculated MW	68038
Application Details	Immunohistochemistry(Frozen Section), 2-4 μ g/ml, Human, bovine, - Western blot, 1-2 μ g/ml, Human, bovine
Subcellular Localization	Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cytoplasm, cytoskeleton . Cytoplasm, cell cortex . Detected adjacent to the cell membrane. .
Tissue Specificity	Detected in eye lens. .
Source	Eukaryota
Protein Name	Filensin
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
Clone Names	FIL-7B10
Immunogen	Human and bovine lens filament enriched fraction(plasma membrane-cytoskeleton complex).
Purification	Ascites

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the intermediate filament family.

Protein Information

Name	Bfsp1
Function	Required for the correct formation of lens intermediate filaments as part of a complex composed of BFSP1, BFSP2 and CRYAA (By similarity). Involved in altering the calcium regulation of MIP water permeability (By similarity).
Cellular Location	Cell membrane; Peripheral membrane protein {ECO:0000250 UniProtKB:Q06002}; Cytoplasmic side {ECO:0000250 UniProtKB:Q06002}. Cytoplasm. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:Q06002}. Cytoplasm, cell cortex {ECO:0000250 UniProtKB:Q06002}
Tissue Location	Expressed in the deep and shallow cortices of the retina lens (at protein level).

Background

Filensin, also known as beaded filament structure protein 1, have two major component BFSP1 and BESP2. Filensin gene is mapped at 20p12.1-p11.23. The sequence of the predicted 665-amino acid human protein is 62% and 50% identical to those of bovine and chicken filensin, respectively. However, it has less than 26% identity to other members of the intermediate filament(IF) family.

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