

BFSP1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant BFSP1.

Catalog # AT1293a

Product Information

Application	WB, E
Primary Accession	Q12934
Other Accession	NM_001195
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6B4
Calculated MW	74544

Additional Information

Gene ID	631
Other Names	Filensin, Beaded filament structural protein 1, Lens fiber cell beaded-filament structural protein CP 115, CP115, Lens intermediate filament-like heavy, LIFL-H, BFSP1
Target/Specificity	BFSP1 (NP_001186, 567 a.a. ~ 664 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	BFSP1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

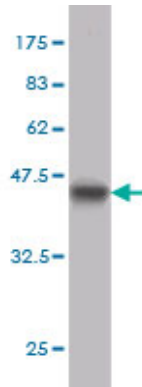
Background

More than 99% of the vertebrate ocular lens is comprised of terminally differentiated lens fiber cells. Two lens-specific intermediate filament-like proteins, CP49 (also known as phakinin) and the protein product of this gene, filensin, are expressed only after fiber cell differentiation has begun. Both proteins are found in a structurally unique cytoskeletal element that is referred to as the beaded filament (BF). Mutations in this gene are the cause of autosomal recessive cortical juvenile-onset cataract. Multiple transcript variants encoding different isoforms have been found for this gene.

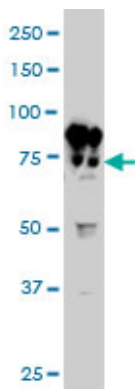
References

Autosomal recessive juvenile onset cataract associated with mutation in BFSP1. Ramachandran RD, et al. Hum Genet, 2007 May. PMID 17225135. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932. The DNA sequence and comparative analysis of human chromosome 20. Deloukas P, et al. Nature, 2001 Dec 20-27. PMID 11780052. An autosomal dominant posterior polar cataract locus maps to human chromosome 20p12-q12. Yamada K, et al. Eur J Hum Genet, 2000 Jul. PMID 10909854. Isolation of the human beaded-filament structural protein 1 gene (BFSP1) and assignment to chromosome 20p11.23-p12.1. Rendtorff ND, et al. Genomics, 1998 Oct 1. PMID 9787085.

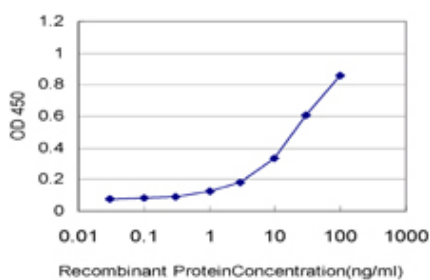
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .



BFSP1 monoclonal antibody (M02), clone 6B4 Western Blot analysis of BFSP1 expression in HL-60 (Cat # AT1293a)



Detection limit for recombinant GST tagged BFSP1 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.