

BFSP1 Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a partial recombinant BFSP1.****Catalog # AT1293a****Specification**

BFSP1 Antibody (monoclonal) (M02) - Product Information

Application	WB, E
Primary Accession	Q12934
Other Accession	NM_001195
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	74544

BFSP1 Antibody (monoclonal) (M02) - 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

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.

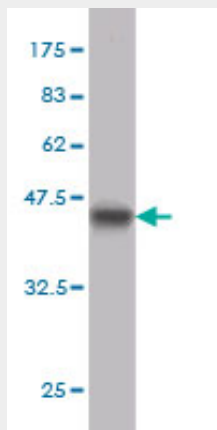
BFSP1 Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

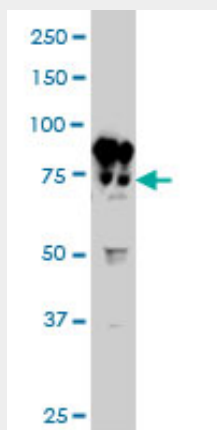
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

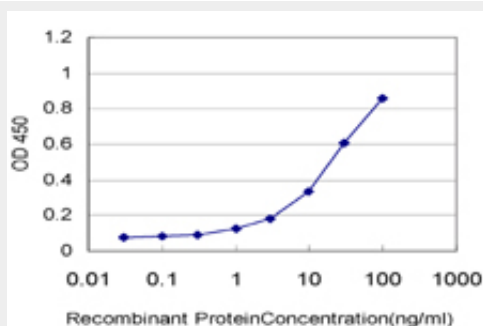
BFSP1 Antibody (monoclonal) (M02) - Images



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.

BFSP1 Antibody (monoclonal) (M02) - 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.

BFSP1 Antibody (monoclonal) (M02) - 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.