

## 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 | <a href="#">Q12934</a>    |
| Other Accession   | <a href="#">NM_001195</a> |
| 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 .

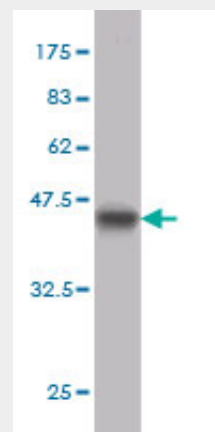
#### Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

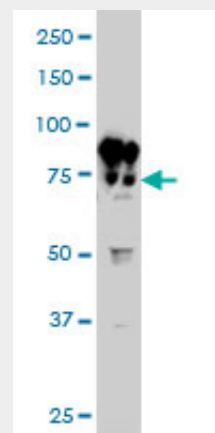
#### Precautions

BFSP1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

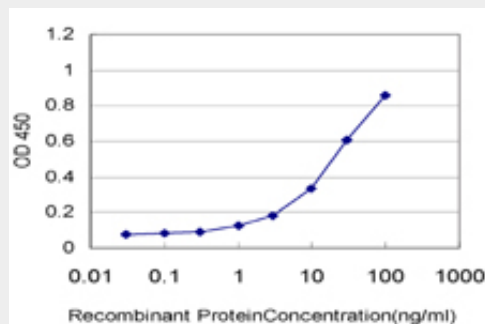
#### BFSP1 Antibody (monoclonal) (M02) -



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

## 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 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.