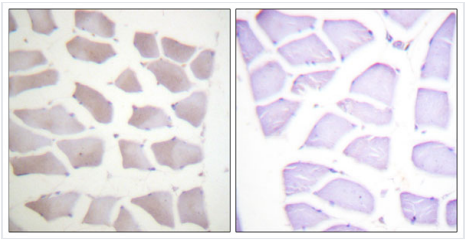
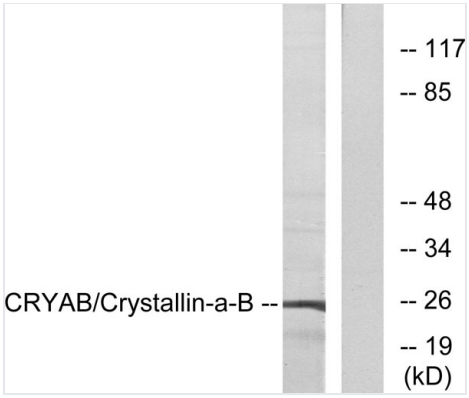
CRYAB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CRYAB, Polyclonal Antibody
Full Product Name	CRYAB Antibody
Product Gene Name	anti-CRYAB antibody
Product Synonym Names	Alpha crystallin B chain; Alpha(B)-crystallin; CRYA2; P23; Rosenthal fiber component; crystallin; alphaB
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	CRYAB Antibody detects endogenous levels of total CRYAB protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	20 kDa
OMIM	M28638 Genomic DNA
3D Structure	ModBase 3D Structure for P02511
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human CRYAB.
Immunogen Range	Oct-59
Applications Tested/Suitable for anti-CRYAB antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CRYAB antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:1000
Related Product Information for anti-CRYAB antibody	MBS9503842 is an antibody targeting CRYAB. Also known as CRYAB Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CRYAB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-CRYAB antibody
Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using CRYAB Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot (WB) of anti-CRYAB antibody
Western blot analysis of lysates from 293 cells, using CRYAB Antibody. The lane on the right is blocked with the synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRYAB. It may not necessarily be applicable to this product.

NCBI GI #	577019571
NCBI GeneID	1410
NCBI Accession #	NP_001276736.1
UniProt Primary Accession #	P02511
UniProt Secondary Accession #	O43416; Q9UC37; Q9UC38; Q9UC39; Q9UC40; Q9UC41; B0YIX0
UniProt Related Accession #	P02511
GenBank Nucleotide #	NM_001289807.1
NCBI Official Full Name	alpha-crystallin B chain isoform 1
NCBI Official Synonym Full Names	crystallin alpha B
NCBI Official Symbol	CRYAB
NCBI Official Synonym Symbols	MFM2; CRYA2; CTPP2; HSPB5; CMD1II; CTRCT16; HEL-S-101
UniProt Protein Name	Alpha-crystallin B chain
UniProt Synonym Protein Names	Alpha(B)-crystallin; Heat shock protein beta-5; HspB5; Renal carcinoma antigen NY-REN-27; Rosenthal fiber component
Protein Family	Alpha-crystallin
UniProt Gene Name	CRYAB
UniProt Synonym Gene Names	CRYA2; HSPB5; HspB5
NCBI Protein Information	alpha-crystallin B chain

NCBI Summary for CRYAB	Mammalian lens crystallins are divided into alpha, beta, and gamma families. Alpha crystallins are composed of two gene products: alpha-A and alpha-B, for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (HSP20) family. They act as molecular chaperones although they do not renature proteins and release them in the fashion of a true chaperone; instead they hold them in large soluble aggregates. Post-translational modifications decrease the ability to chaperone. These heterogeneous aggregates consist of 30-40 subunits; the alpha-A and alpha-B subunits have a 3:1 ratio, respectively. Two additional functions of alpha crystallins are an autokinase activity and participation in the intracellular architecture. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Alpha-A and alpha-B gene products are differentially expressed; alpha-A is preferentially restricted to the lens and alpha-B is expressed widely in many tissues and organs. Elevated expression of alpha-B crystallin occurs in many neurological diseases; a missense mutation cosegregated in a family with a desmin-related myopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]
UniProt Comments for CRYAB	May contribute to the transparency and refractive index of the lens. Has chaperone-like activity, preventing aggregation of various proteins under a wide range of stress conditions.
Research Articles on CRYAB	**1.** Mechanistic studies revealed KLF4 specifically bound the promoter of CRYAB and upregulated CRYAB expression in human osteosarcoma cells.
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