

Mouse anti-Human, Mouse Alpha-Crystallin B Monoclonal Antibody | anti-CRYAB antibody

Alpha-Crystallin B antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA47989	Mouse	Human, Mouse	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

Alpha-Crystallin B; Monoclonal Antibody; Alpha-Crystallin B antibody; Crya2; Crya-2; Cryab; Crystallin alpha B; ; anti-CRYAB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	2E3
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	175
Applicable Applications for anti-CRYAB antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human Crystallin alpha B (1-175 aa) purified from E. coli
Clone Note	Anti-human Crystallin alpha B mAb, clone 2E8, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with recombinant Crystallin alpha B.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of Crystallin alpha B in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Crystallin alpha B antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

Recombinant crystallin alpha A (alphaA) and the extract of mouse eye (ME) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human crystallin alpha B antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-CRYAB antibody	alpha-Crystallins are composed of two gene products; alpha-Crystallin A and B, for acidic and basic, respectively. alpha-Crystallins can be induced by heat shock and are members of the small heat shock protein (sHSP also known as the HSP20). They act as molecular chaperones and hold them in large soluble aggregates. These heterogeneous aggregates consist of 30-40 subunits; the alpha-Crystallin A and B subunits have a 3:1 ratio, respectively. Two additional functions of alpha-crystallins are an autokinase activity and participation in the intracellular architecture. alpha-Crystallin B is expressed widely in many tissues and organs and occurs in many neurological diseases.
Product Categories/Family for anti-CRYAB antibody	Heat Shock Proteins
References	Hasan, A., et al. (2002) Biochemistry 41 (52) 15876-15882; Kamradt,M.C., et al (2002) J. Biol. Chem. 277 (41) 38731-38736; Reddy, G.B., et al (2002) FEBS lett. 522 (1-3) 59-64; Ito, H., et al (2002) J. Biochem. 131 (4) 593-603

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503057
NCBI GeneID	1410
NCBI Accession #	NP_001876.1
NCBI GenBank Nucleotide #	NM_001885.2
UniProt Accession #	P02511; O43416; Q9UC37; Q9UC38; Q9UC39; Q9UC40; Q9UC41; B0YIX0
Molecular Weight	20,159 Da
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	MF2M; CRYA2; CTPP2; HSPB5; CMD11I; CTRCT16; HEL-S-101
NCBI Protein Information	alpha-crystallin B chain
UniProt Protein Name	Alpha-crystallin B chain
UniProt Gene Name	CRYAB
UniProt Synonym Gene Names	CRYA2; HSPB5; HspB5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.