



Anti-CRYAB monoclonal antibody, clone 2E8 (CABT-50795MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti Human alpha B crystallin, clone 2E8 recognizes the basic (b) form of alpha crystallin, alpha B crystallin, a 20kDa water-soluble major structural protein and member of the heat shock protein family, designated HSPB5, which acts as a molecular chaperone and is believed to play a role in the maintenance of ocular lens transparency/refractive index. Besides the involvement of both alpha A and alpha B crystallin in the prevention of protein precipitation and cataract formation in the eye, alpha crystallins have also been demonstrated in other tissues including the heart, brain, kidney, spleen and thymus. Studies have shown that a mutation in alpha B crystallin is responsible for desmin-related myopathy (DRM) and cataract. Alpha B crystallin is also a major component of the astrocytic inclusions known as Rosenthal fibers (RFs), found in Alexanders disease. Western Blotting detects a band of approximately 20kDa in mouse eye cell lysates.

Specificity	ALPHA B CRYSTALLIN
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human, Mouse
Clone	2E8
Conjugate	Unconjugated
Applications	ELISA; WB
Format	Purified IgG - liquid
Size	100 µg

Preservative	0.1% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	CRYAB crystallin, alpha B [Homo sapiens (human)]
Official Symbol	CRYAB
Synonyms	CRYAB; crystallin, alpha B; MFM2; CRYA2; CTPP2; HSPB5; CMD1II; CTRCT16; HEL-S-101; alpha-crystallin B chain; heat shock protein beta-5; rosenthal fiber component; heat-shock 20 kD like-protein; renal carcinoma antigen NY-REN-27; epididymis secretory prote
Entrez Gene ID	1410
Protein Refseq	NP_001276736
UniProt ID	P02511
Chromosome Location	11q22.3-q23.1
Pathway	Protein processing in endoplasmic reticulum;
Function	identical protein binding; metal ion binding; microtubule binding; protein binding; protein homodimerization activity; structural constituent of eye lens; unfolded protein binding;