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Product datasheet for TA326430

Alpha B Crystallin (CRYAB) Rabbit Polyclonal Antibody [Clone ID: N/A]

Product data:

Product Type:	Primary Antibodies
Clone Name:	N/A
Recommended Dilution:	WB: 1:5000-10000
Reactivity:	Human, Mouse, Rat, Chicken, Cow
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to human alpha B crystallin conjugated to KLH.
Formulation:	Rabbit antiserum
Concentration:	lot specific
Purification:	Rabbit antiserum
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	crystallin alpha B
Database Link:	NP_001876 Entrez Gene 12955 MouseEntrez Gene 25420 RatEntrez Gene 1410 Human P02511

View online »

Background: The alpha-crystallins are major water-soluble lens structural proteins of the vertebrate eye that are related to the small heat shock protein family. The alpha-crystallins possess structural and functional similarities with Hsp25 and Hsp27 . Mammalian lens cystallins are divided into alpha, beta and gamma families. Alpha and beta families are further divided into acidic and basic groups (Alpha-A and Alpha-B respectively). In the lens, alpha-crystallin primarily functions to maintain proper refractive index, however it can also function as a molecular chaperone that binds to the denatured proteins, keeping them in solution and thereby maintaining the translucency of the lens. When cellular stress occurs, alpha-crystallin enters its phosphorylated state and may serve a structural control function and play a role in protein maintenance . In addition to their interaction with proteins, alpha-crystallins also interact with native molecules such as membrane proteins, Golgi matrix protein, structural proteins, nuclear proteins and DNA. Two other functions are an autokinase activity and participation in the intracellular architecture, and it has also been proven that both alpha-A and B prevent apoptosis by inhibiting caspases . Specifically, alpha-B cystallin is found in many cells and organs outside the lens, and alpha B is overexpressed in several neurological disorders and in cell lines under stress conditions .

Synonyms: CMD1II; CRYA2; CTPP2; CTRCT16; HEL-S-101; HSPB5; MFM2

Note: Detects ~22kDa. Does not cross-react with aA-crystallin.