



## CRYAB Mouse Monoclonal Antibody

E10-20182

**Background:** Crystallin, alpha B. Crystallins are separated into two classes. taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins. four homologous motifs, a connecting peptide, and N- and C-terminal extensions. Alpha crystallins are composed of two gene products. alpha-A and alpha-B, for acidic and basic, respectively. Two additional functions of alpha crystallins are an autokinase activity and participation in the intracellular architecture. 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

**Catalog Number:** E10-20182

**Amount:** 100µg/100µl

**Clone Number:** 1D11C6E6

**Species:** Mouse IgG2a

**Aliases:** CRYA2; CTPP2; HSPB5; CRYAB

**Entrez Gene:** 1410

**Immunogen:** Purified recombinant fragment of CRYAB (aa1-175) expressed in E. Coli.

**Storage:** Store at 4 °C for long term storage, store at -20 °C for short term storage

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human

**Tested Applications:** WB,IHC, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Application notes:** WB.1/500 - 1/2000,IHC.1/200 - 1/1000.ELISA. Propose dilution 1/10000.

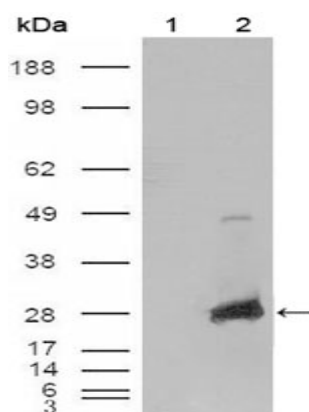


Figure 1. Western blot analysis using CRYAB mouse mAb against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY CRYAB cDNA (2).

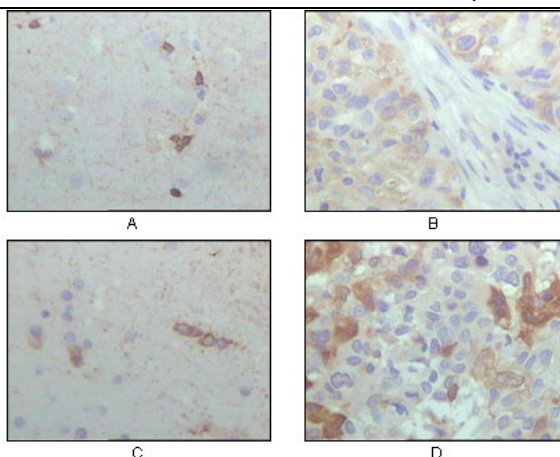


Figure 2. Immunohistochemical analysis of paraffin-embedded human brain hippocampus (A), lung cancer (B), brain tumor (C), breast cancer (D), showing cytoplasmic localization with DAB staining using CRYAB mouse mAb.

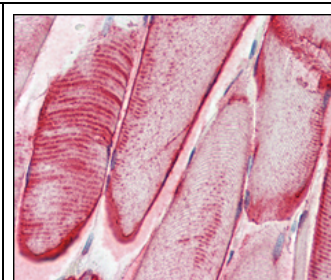


Figure3. Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissues using CRYAB mouse mAb.

**For Research Use Only**