

## Mouse anti-Human Crystallin-alphaB Monoclonal Antibody | anti-CRYAB antibody

Crystallin-alphaB Monoclonal Antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                  |
|-----------|-------|------------|---------------------------------------------------------------|
| AAA320022 | Mouse | Human      | ELISA, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

Crystallin-alphaB; Monoclonal Antibody; Crystallin-alphaB Monoclonal Antibody; Alpha-crystallin B chain; CRYAB; CRYA2; Alpha(B)-crystallin; Heat shock protein beta-5; HspB5; Renal carcinoma antigen NY-REN-27; Rosenthal fiber component; anti-CRYAB antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                         |
| Reactivity                                      | Human                                                                                         |
| Clonality                                       | Monoclonal                                                                                    |
| Specificity                                     | Crystallin-alphaB Monoclonal Antibody detects endogenous levels of Crystallin-alphaB protein. |
| Purity/Purification                             | Affinity purification                                                                         |
| Form/Format                                     | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                       |
| Applicable Applications for anti-CRYAB antibody | ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                 |
| Immunogen                                       | Purified recombinant fragment of Crystallin-?B (aa1-175) expressed in E coli.                 |
| Modification                                    | Unmodified/Total                                                                              |
| Preparation and Storage                         | Store at -20 degree C/1 year                                                                  |

### IMAGES



#### IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded human brain hippocampus (A). lung cancer (B). brain tumor (C). breast cancer (D). showing cytoplasmic localization with DAB staining using Crystallin-?B Monoclonal Antibody.



#### WB (Western Blot)

Western Blot analysis using Crystallin-?B Monoclonal Antibody against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY CRYAB cDNA (2).

### ADDITIONAL INFORMATION

#### Related Product Information for anti-CRYAB antibody

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

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4503057                                                                                                                                          |
| NCBI GeneID                      | 1410                                                                                                                                             |
| NCBI Accession #                 | NP_001876.1                                                                                                                                      |
| NCBI GenBank Nucleotide #        | NM_001885.1                                                                                                                                      |
| UniProt Accession #              | P02511; O43416; Q9UC37; Q9UC38; Q9UC39; Q9UC40; Q9UC41; B0YIX0                                                                                   |
| Molecular Weight                 | 20,159 Da                                                                                                                                        |
| NCBI Official Full Name          | alpha-crystallin B chain                                                                                                                         |
| NCBI Official Synonym Full Names | crystallin, alpha B                                                                                                                              |
| NCBI Official Symbol             | CRYAB                                                                                                                                            |
| NCBI Official Synonym Symbols    | CRYA2; CTPP2; HSPB5; CMD1II                                                                                                                      |
| NCBI Protein Information         | alpha-crystallin B chain; heat shock protein beta-5; rosenthal fiber component; heat-shock 20 kD like-protein; renal carcinoma antigen NY-REN-27 |
| UniProt Protein Name             | Alpha-crystallin B chain                                                                                                                         |
| UniProt Gene Name                | <b>CRYAB</b>                                                                                                                                     |
| UniProt Synonym Gene Names       | CRYA2; HspB5                                                                                                                                     |
| UniProt Entry Name               | CRYAB_HUMAN                                                                                                                                      |

**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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/crystallin-alphab-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/320022>