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# alpha A Crystallin Rabbit mAb

Catalog # AP78264

## Product Information

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| **Application** | WB, IF, ICC |
| **Primary Accession** | P02489 |
| **Reactivity** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Monoclonal Antibody |
| **Isotype** | IgG |
| **Conjugate** | Unconjugated |
| **Immunogen** | A synthesized peptide derived from human CRYAA |
| **Purification** | Affinity Purified |
| **Calculated MW** | 19909 |

## Additional Information

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| **Gene ID** | 102724652;1409 |
| **Other Names** | CRYAA |
| **Dilution** | WB~~1/500-1/1000 IF~~1:50~200 ICC~~N/A |
| **Format** | Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol. |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

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| **Name** | CRYAA |
| **Synonyms** | CRYA1, HSPB4 |
| **Function** | Contributes to the transparency and refractive index of the lens (PubMed:18302245). In its oxidized form (absence of intramolecular disulfide bond), acts as a chaperone, preventing aggregation of various proteins under a wide range of stress conditions (PubMed:18199971, PubMed:19595763, PubMed:22120592, PubMed:31792453). Required for the correct formation of lens intermediate filaments as part of a complex composed of BFSP1, BFSP2 and CRYAA (PubMed:28935373). |
| **Cellular Location** | Cytoplasm. Nucleus. Note=Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles |

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| **Tissue Location** | Expressed in the eye lens (at protein level). |

## Images