

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects mouse AlphaA Crystallin/CRYAA in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human CRYAB is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human AlphaA Crystallin/CRYAA Met1-Ser173 Accession # P02489
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

AlphaA Crystallin (CRYAA, also known as Crystallin α-A chain and HspB4) is a 21-22 kDa member of the HSP20 family of proteins. It is found in lens epithelium where it noncovalently oligomerizes with CRY-αB to generate a transparent 350-1000 kDa α-Crystallin protein complex. Human CRYAA is 173 amino acids (aa) in length. There is a α-Crystallin Hsp domain over aa 63-145. Multiple posttranslational modifications may exist. The C-terminal Ser and the N-terminal MetAspVal is occasionally cleaved. There is also phosphorylation at Ser45 and 122, O-linked GlcNAc modification at Ser162, deamidation at Asn101, and acetylation at Lys70. Full-length human CRYAA is 54% aa identical to CRY-AlphaB, and 95% aa identical to mouse CRYAA.

PRODUCT SPECIFIC NOTICES

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