

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat AlphaB Crystallin/CRYAB in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human CRYAA is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human AlphaB Crystallin/CRYAB Met1-Lys175 Accession # P02511
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

AlphaB Crystallin (CRYAB, also known as Crystallin α-B chain and HspB5) is a 22-23 kDa member of the HSP20 family of proteins. It has widespread expression in many tissues in addition to lens epithelium, where it noncovalently oligomerizes with CRY-αA to generate a transparent 350-1000 kDa α-Crystallin protein complex. Human CRYAB is 175 amino acids (aa) in length. There is a α-Crystallin Hsp domain over aa 66-149. Multiple posttranslational modifications may exist. The N-terminal Met and MetAspIleAlaIleHis sequence is occasionally cleaved. There is also phosphorylation at Ser45 and 59, potential O-GlcNAc modification at Thr158, 162 or 170, and acetylation at Lys92. There is an alternate start site at Met68 that may be accompanied by a 47 aa substitution for aa 109-175. Full-length human CRYAB is 54% aa identical to CRY-AlphaA, and 98% aa identical to mouse CRYAB.

PRODUCT SPECIFIC NOTICES

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