

Crystallin-αB (phospho Ser59) rabbit pAb

Cat No.: ES4832

For research use only

Overview

Product Name Crystallin-αB (phospho Ser59) rabbit pAb

Host species Rabbit
Applications IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions Immunohistochemistry: 1/100 - 1/300. ELISA:

1/5000. Not yet tested in other applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human

CRYAB/Crystallin-alpha-B around the

phosphorylation site of Ser59. AA range:31-80 Phospho-Crystallin-αB (S59) Polyclonal Antibody

Specificity Phospho-Crystallin-αB (S59) Polyclonal Antibody detects endogenous levels of Crystallin-αB protein

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only when phosphorylated at S59.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Alpha-crystallin B chain

Gene Name CRYAB

Cellular localization Cytoplasm . Nucleus . Secreted . Lysosome .

Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35

speckles or nuclear splicing speckles

(PubMed:19464326). Localizes at the Z-bands and

the intercalated disk in ca

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal Concentration 1 mg/ml

Observed band

Human Gene ID 1410 Human Swiss-Prot Number P02511

Alternative Names CRYAB; CRYA2; Alpha-crystallin B chain;



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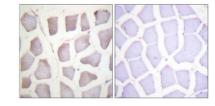


Background

Alpha(B)-crystallin; Heat shock protein beta-5; HspB5; Renal carcinoma antigen NY-REN-27; Rosenthal fiber component

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 distin

Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using CRYAB/Crystallin-alpha-B (Phospho-Ser59) Antibody. The picture on the right is blocked with the phospho peptide.



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