Crystallin-αB (phospho Ser59) Polyclonal Antibody

Catalog No: #13944

Package Size: #13944-1 50ul #13944-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
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Description

Product Name	Crystallin-αB (phospho Ser59) Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	IHC-p,IF(paraffin section),ELISA
Species Reactivity	Human,Mouse,Rat
Specificity	Phospho-Crystallin-αB (S59) Polyclonal Antibody detects endogenous levels of Crystallin-αB protein only when phosphorylated at S59.
Immunogen Description	The antiserum was produced against synthesized peptide derived from human CRYAB/Crystallin-alpha-B around the phosphorylation site of Ser59. AA range:31-80
Conjugates	Unconjugated
Other Names	CRYAB; CRYA2; Alpha-crystallin B chain; Alpha(B)-crystallin; Heat shock protein beta-5; HspB5; Renal carcinoma antigen NY-REN-27; Rosenthal fiber component
Accession No.	Swiss Prot:P02511GeneID:1410
Calculated MW	20kd
Concentration	1 mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	-20°C/1

Application Details

Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.

Background

crystallin alpha B(CRYAB) Homo sapiens 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