

Rabbit CRYAB Polyclonal Antibody | anti-CRYAB antibody

Phospho-CRYAB (Ser19) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328345	Rabbit	Human, Mouse, RatPredicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CRYAB; Polyclonal Antibody; Phospho-CRYAB (Ser19) Antibody; AACRYA; Alpha B crystallin; Alpha crystallin B chain; Alpha(B)-crystallin; Alpha-crystallin B chain; CRYA2; Cryab; CRYAB_HUMAN; Crystallin alpha B; Crystallin alpha polypeptide 2; CTPP2; Heat shock 20 kD like protein; Heat shock protein beta 5; Heat shock protein beta-5; HspB5; Renal carcinoma antigen NY REN 27; Renal carcinoma antigen NY-REN-27; Rosenthal fiber component; anti-CRYAB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-CRYAB (Ser19) Antibody detects endogenous levels of CRYAB only when phosphorylated at Ser19.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	175
Applicable Applications for anti-CRYAB antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CRYAB around the phosphorylation site of Ser19.
Tissue Specificity	Lens as well as other tissues (PubMed:838078, PubMed:2387586). Expressed in myocardial tissue (PubMed:28493373).
Subcellular Location	Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-CRYAB (Ser19) in lysates of HepG2 cells treated with nocodazole 1ug/ml for 16h, using Phospho-CRYAB (Ser19) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining mouse spleen tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-CRYAB antibody	Description: May contribute to the transparency and refractive index of the lens. Has chaperone-like activity, preventing aggregation of various proteins under a wide range of stress conditions. Subunit Structure: Heteropolymer composed of three CRYAA and one CRYAB subunits (PubMed:20836128). Aggregates with homologous proteins, including the small heat shock protein HSPB1, to form large heteromeric complexes (PubMed:10751411). Inter-subunit bridging via zinc ions enhances stability, which is crucial as there is no protein turn over in the lens (PubMed:22890888). Interacts with HSPBAP1 and TTN/titin (PubMed:14676215). Interacts with TMEM109 (PubMed:23542032). Interacts with DES; binds rapidly during early stages of DES filament assembly and a reduced binding seen in the later stages (PubMed:28470624). Similarity: Belongs to the small heat shock protein (HSP20) family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503057
NCBI GeneID	1410
NCBI Accession #	NP_001876.1
NCBI GenBank Nucleotide #	NP_001876.1
UniProt Accession #	P02511
Molecular Weight	Observed: 20 kDa Predicted: 21 kDa
NCBI Official Full Name	alpha-crystallin B chain isoform 1
NCBI Official Synonym Full Names	crystallin alpha B
NCBI Official Symbol	CRYAB
NCBI Official Synonym Symbols	MFM2; CRYA2; CTPP2; HSPB5; CMD1II; CTRCT16; HEL-S-101
NCBI Protein Information	alpha-crystallin B chain
UniProt Protein Name	Alpha-crystallin B chain
UniProt Gene Name	CRYAB
UniProt Synonym Gene Names	CRYA2; HspB5
UniProt Entry Name	CRYAB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.