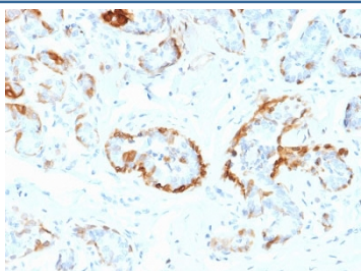


## CRYAB Antibody [clone CPTC-CRYAB-1] (V3972)

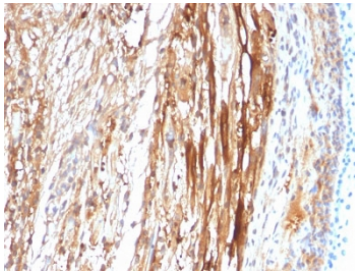
Catalog No.	Formulation	Size
V3972-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3972-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3972SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3972IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

[Bulk quote request](#)

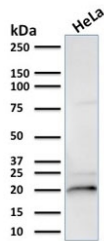
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Rat
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2c, kappa
<b>Clone Name</b>	CPTC-CRYAB-1
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P02511
<b>Localization</b>	Cytoplasmic, nuclear
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
<b>Limitations</b>	This CRYAB antibody is available for research use only.



IHC staining of FFPE human breast tissue with CRYAB antibody (clone CPTC-CRYAB-1). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

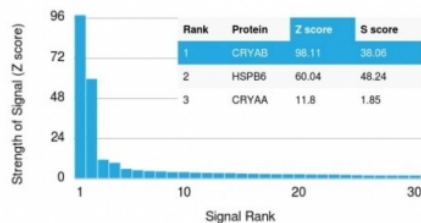


IHC staining of FFPE rat heart tissue with CRYAB antibody (clone CPTC-CRYAB-1).  
HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



Western blot testing of human HeLa lysate with CRYAB antibody (clone CPTC-CRYAB-1). Predicted molecular weight: ~20 kDa.

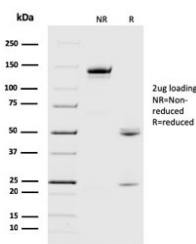
Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CRYAB antibody (clone CPTC-CRYAB-1). These results demonstrate the foremost specificity of the CPTC-CRYAB-1 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



Western blot testing of human Y79 cell lysate with CRYAB antibody (clone CPTC-CRYAB-1). Predicted molecular weight: ~20 kDa.



SDS-PAGE analysis of purified, BSA-free CRYAB antibody (clone CPTC-CRYAB-1) as confirmation of integrity and purity.

## Description

Crystallins are the major proteins of the vertebrate eye lens, where they maintain the transparency and refractive index of the lens. Crystallins are divided into alpha, beta and gamma families, and the beta- and gamma-crystallins also compose a superfamily. Crystallins usually contain seven distinct protein regions, including four homologous motifs, a connecting peptide, and N- and C-terminal extensions. Alpha-crystallins consist of three gene products, alpha-A-, alpha-B- and alpha-C-crystallin, which are members of the small heat shock protein family (HSP 20). Alpha-crystallins act as molecular chaperones by holding denatured proteins in large soluble aggregates. However, unlike other molecular chaperones,

alpha-crystallins do not renature these proteins. Expression of alpha-A-crystallin is restricted to the lens and defects of this gene cause the development of autosomal dominant congenital cataracts (ADCC). The human alpha-B-crystallin gene product is expressed in many tissues, including lens, heart and skeletal muscle. Elevated expression of alpha-B-crystallin is associated with many neurological diseases, and a missense mutation in this gene has co-segregated in a family with a Desmin-related myopathy.

## Application Notes

Optimal dilution of the CRYAB antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

A full length recombinant human protein was used as the immunogen for the CRYAB antibody.

## Storage

Store the CRYAB antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).