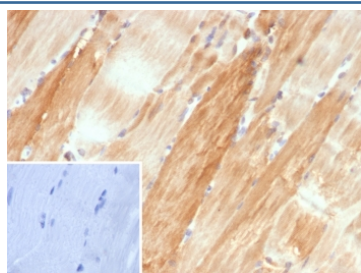


## CRYAB Antibody [clone CRYAB/4662] (V4192)

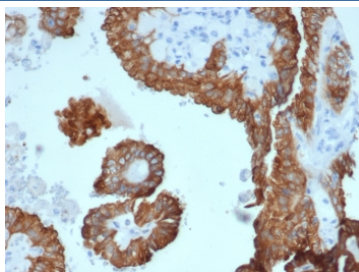
Catalog No.	Formulation	Size
V4192-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4192-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4192SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

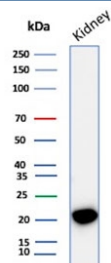
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2, kappa
<b>Clone Name</b>	CRYAB/4662
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P02511
<b>Localization</b>	Cytoplasm, Nucleus
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
<b>Limitations</b>	This CRYAB antibody is available for research use only.



IHC staining of FFPE human skeletal muscle tissue with Crystallin Alpha B antibody (clone CRYAB/4662). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human kidney carcinoma tissue with Crystallin Alpha B antibody (clone CRYAB/4662). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human kidney tissue lysate with CRYAB antibody (clone CRYAB/4662). Predicted molecular weight ~20 kDa.

## 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, AlphaA-, AlphaB- and AlphaC-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 AlphaA-crystallin is restricted to the lens and defects of this gene cause the development of autosomal dominant congenital cataracts (ADCC). The human AlphaB-crystallin gene product is expressed in many tissues, including lens, heart and skeletal muscle. Elevated expression of AlphaB-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.

## Immunogen

Recombinant human full-length CRYAB protein was used as the immunogen for the CRYAB antibody.

## Storage

Aliquot the CRYAB antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.