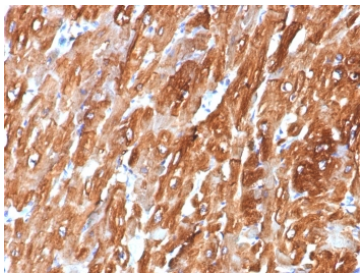
Crystallin Alpha B Antibody [clone CRYAB/7918] (V4184)

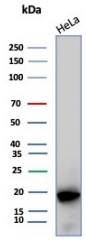
Catalog No.	Formulation	Size
V4184-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4184-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4184SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

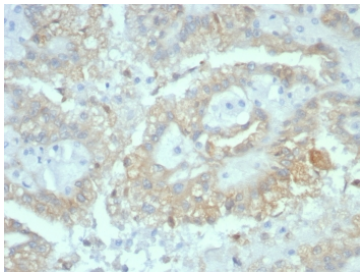
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	CRYAB/7918
Purity	Protein A/G affinity
UniProt	P02511
Localization	Cytoplasm, Nucleus
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This Crystallin Alpha B antibody is available for research use only.



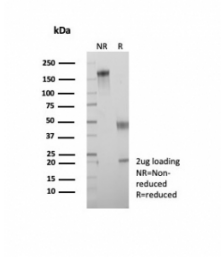
IHC staining of FFPE human heart tissue with Crystallin Alpha B antibody (clone CRYAB/7918). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



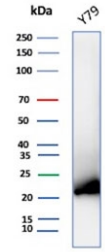
Western blot testing of human HeLa cell lysate with Crystallin Alpha B antibody (clone CRYAB/7918).



IHC staining of FFPE human renal cell carcinoma tissue with Crystallin Alpha B antibody (clone CRYAB/7918). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Crystallin Alpha B antibody (clone CRYAB/7918) as confirmation of integrity and purity.



Western blot testing of human Y79 cell tissue lysate with Crystallin Alpha B antibody (clone CRYAB/7918).

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 Crystallin Alpha B antibody should be determined by the researcher.

Immunogen

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

Storage

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