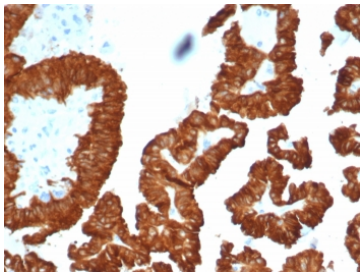
Crystallin Alpha B Antibody [clone CRYAB/4661] (V4180)

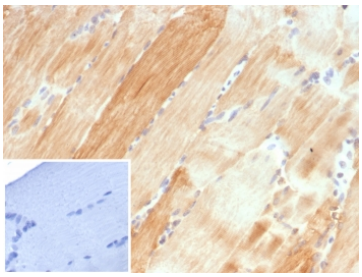
Catalog No.	Formulation	Size
V4180-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4180-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4180SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

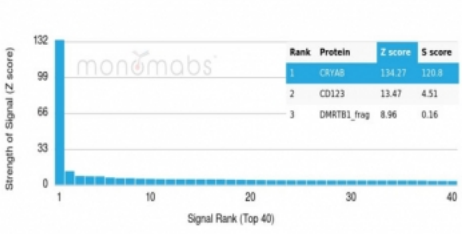
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CRYAB/4661
Purity	Protein A/G affinity
UniProt	P02511
Localization	Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This Crystallin Alpha B antibody is available for research use only.



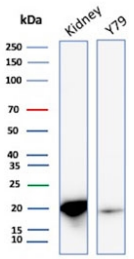
Crystallin Alpha B Antibody Kidney Cancer IHC. Immunohistochemistry staining of FFPE human kidney cancer with Crystallin Alpha B antibody (clone CRYAB/4661). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Crystallin Alpha B Antibody Human Skeletal Muscle Tissue IHC. Immunohistochemistry staining of FFPE human skeletal muscle tissue with Crystallin Alpha B antibody (clone CRYAB/4661). 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.



Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using Crystallin Alpha B antibody (clone CRYAB/4661). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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 targets on 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-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.



Western blot testing of human kidney and Y79 cell lysate with Crystallin Alpha B antibody (clone CRYAB/4661). 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.

For a microarray-validated reference CRYAB antibody with confirmed specificity, see clone CRYAB/4657.

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.

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