# Crystallin Alpha B Antibody

Mouse Monoclonal Antibody [Clone CRYAB/4659]

| Catalog No | Format | Size |
|---|---|---|
| 1410-MSM9-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 1410-MSM9-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 1410-MSM9-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

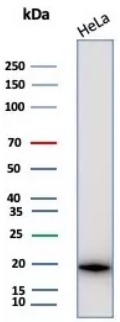
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

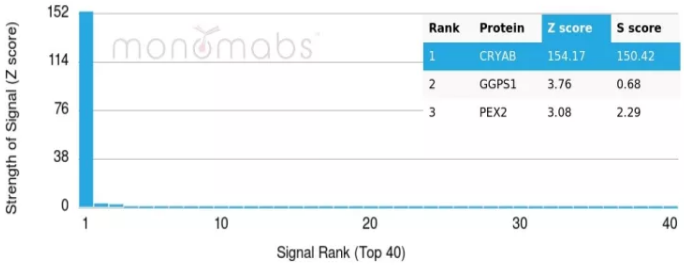
| | |
|---|---|
| **Clone** | CRYAB/4659 |
| **Gene Name** | CRYAB |
| **Immunogen** | Recombinant human full-length CRYAB protein |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2 / Kappa |
| **Mol. Weight of Antigen** | Predicted: 20kDa; Observed: 22-30kDa |
| **Cellular Localization** | Cytoplasm, translocates to nucleus during heat shock and resides in nuclear splicing speckles. |
| **Species Reactivity** | Human |
| **Positive Control** | Huma heart\|kidney or brain. |

**Optimal dilution for a specific application should be determined.*

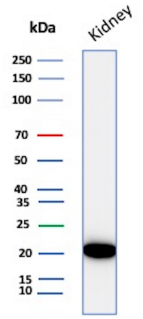
## Product Images for Crystallin Alpha B Antibody



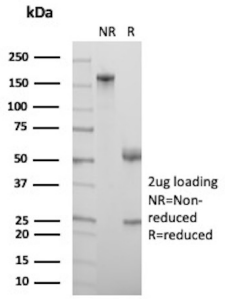

Western blot analysis of HeLa cell lysate using Crystallin Alpha B Mouse Monoclonal Antibody (CRYAB/4659).



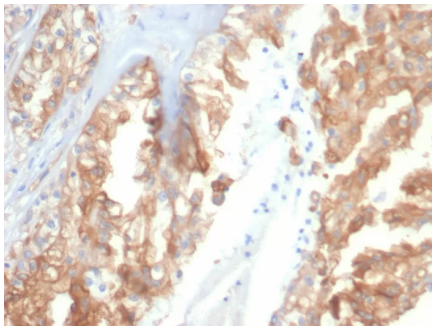

Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Crystallin Alpha B Mouse Monoclonal Antibody (CRYAB/4659). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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 analysis of Human Kidney lysates using CRYAB Mouse Monoclonal Antibody (CRYAB/4659).




SDS-PAGE Analysis of Purified CRYAB Mouse Monoclonal Antibody (CRYAB/4659). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human renal cell cancer stained with Crystallin Alpha B Mouse Monoclonal Antibody (CRYAB/4659). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

## Specificity & Comments

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 ?, ? and ? families, and the ?- and ?-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. ?-crystallins consist of three gene products, ?A-, ?B- and ?C-crystallin, which are members of the small heat shock protein family (HSP 20). ?-crystallins act as molecular chaperones by holding denatured proteins in large soluble aggregates. However, unlike other molecular chaperones, ?-crystallins do not renature these proteins. Expression of ?A-crystallin is restricted to the lens and defects of this gene cause the development of autosomal dominant congenital cataracts (ADCC). The human ?B-crystallin gene product is expressed in many tissues, including lens, heart and skeletal muscle. Elevated expression of ?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.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Cardiovascular

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.