Product Datasheet

Alpha B Crystallin Rabbit mAb

Catalog No: #49568

Package Size: #49568-1 50ul #49568-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

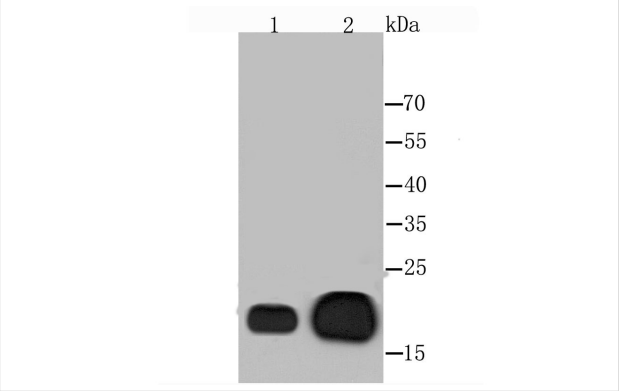
Description

Product Name	Alpha B Crystallin Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JA50-32
Purification	ProA affinity purified
Applications	WB, IHC, ICC/IF, IP
Species Reactivity	Hu, Rt
Immunogen Description	recombinant protein
Other Names	AACRYA antibody Alpha B crystallin antibody Alpha crystallin B chain antibody Alpha(B)-crystallin antibody Alpha-crystallin B chain antibody CRYA2 antibody Cryab antibody CRYAB_HUMAN antibody Crystallin alpha B antibody Crystallin alpha polypeptide 2 antibody CTPP2 antibody Heat shock 20 kD like protein antibody Heat shock protein beta 5 antibody Heat shock protein beta-5 antibody HspB5 antibody Renal carcinoma antigen NY REN 27 antibody Renal carcinoma antigen NY-REN-27 antibody Rosenthal fiber component antibody
Accession No.	Swiss-Prot#:P02511
Uniprot	P02511
GeneID	1410;
Calculated MW	20 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

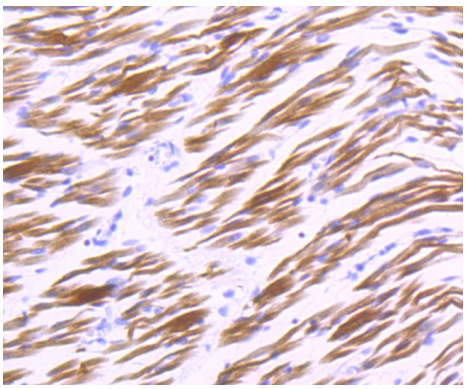
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200IP: 1:50

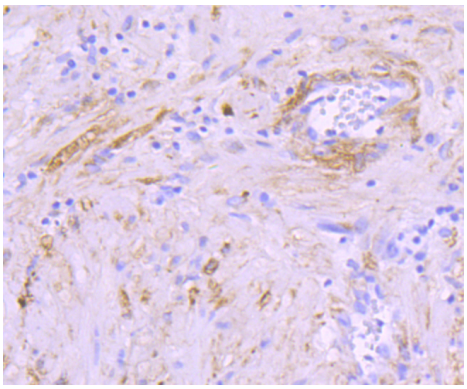
Images



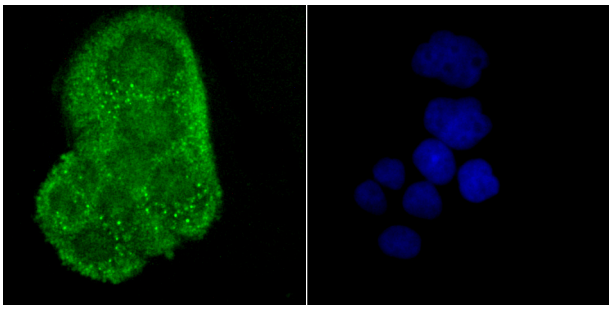
Western blot analysis of Alpha B Crystallin on human skeleton musle (1) and mouse heart (2) tissues lysate using anti-Alpha B Crystallin antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human embryonic skeletal muscle tissue using anti-Alpha B Crystallin antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human prostate tissue using anti-Alpha B Crystallin antibody. Counter stained with hematoxylin.



ICC staining Alpha B Crystallin in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

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 α, β and γ families, and the β- and γ-crystallins also compose a superfamily. Crystallins usually contain seven distinct protein regions, inclu-ding four homologous motifs, a connecting peptide, and N- and C-terminal extensions. α-crystallins consist of three gene products, αA-, αB- and αC-crystallin, which are members of the small heat shock protein family (HSP 20). α-crystallins act as molecular chaperones by holding denatured proteins in large soluble aggregates. However, unlike other molecular chaperones, α-crystallins do not renature these proteins. Expression of αA-crystallin is restricted to the lens and defects of this gene cause the development of autosomal dominant congenital cataracts (ADCC). The human αB-crystallin gene product is expressed in many tissues, including lens, heart and skeletal muscle. Elevated expression of αB-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.

References

Note: This product is for in vitro research use only