Alpha B Crystallin Conjugated Antibody

Catalog No: #C49568

Package Size: #C49568-AF350 100ul #C49568-AF405 100ul #C49568-AF488 100ul #C49568-AF555 100ul #C49568-AF594 100ul #C49568-AF647 100ul #C49568-AF680 100ul #C49568-AF750 100ul #C49568-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	Alpha B Crystallin Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	20 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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.

Note: This product is for in vitro research use only