

Datasheet: MCA2697

BATCH NUMBER 152659

Description:	MOUSE ANTI HUMAN ALPHA B CRYSTALLIN
Specificity:	ALPHA B CRYSTALLIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2E8
Isotype:	IgG2b
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from ascites

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 10% Glycerol
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Recombinant human alpha B crystallin (amino acids 1-175) purified from <i>E. coli</i> .
External Database Links	<p>UniProt: P02511 Related reagents</p> <p>Entrez Gene: 1410 CRYAB Related reagents</p>
Synonyms	CRYA2
RRID	AB_2228123
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.
Specificity	<p>Mouse anti Human alpha B crystallin, clone 2E8 recognizes the basic (b) form of alpha crystallin, alpha B crystallin, a 20kDa water-soluble major structural protein and member of the heat shock protein family, designated HSPB5, which acts as a molecular chaperone and is believed to play a role in the maintenance of ocular lens transparency/refractive index.</p> <p>Besides the involvement of both alpha A and alpha B crystallin in the prevention of protein precipitation and cataract formation in the eye, alpha crystallins have also been demonstrated in other tissues including the heart, brain, kidney, spleen and thymus. Studies have shown that a mutation in alpha B crystallin is responsible for desmin-related myopathy (DRM) and cataract (Perng <i>et al.</i> 1999.). Alpha B crystallin is also a major component of the astrocytic inclusions known as Rosenthal fibers (RFs), found in Alexander's disease (Iwaki <i>et al.</i> 1989.).</p>
Western Blotting	MCA2697 detects a band of approximately 20kDa in mouse eye cell lysates.
References	1. van Nierop, G.P. <i>et al.</i> (2015) Intrathecal CD8 T-cells of multiple sclerosis patients recognize lytic Epstein-Barr virus proteins. Mult Scler. pii: 1352458515588581.
Further Reading	1. Perng, M.D. <i>et al.</i> (1999) The cardiomyopathy and lens cataract mutation in alphaB-crystallin alters its protein structure, chaperone activity, and interaction with intermediate filaments in vitro. J Biol Chem. 274 (47): 33235-43.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/MCA2697 10049
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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