

Datasheet: MCA2696

BATCH NUMBER 170918

Description:	MOUSE ANTI HUMAN ALPHA A CRYSTALLIN
Specificity:	ALPHA A CRYSTALLIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	c9F2
Isotype:	IgG1
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: Rat

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

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 10% Glycerol
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein corresponding to full-length (aa1-173) human crystallin alpha A.
External Database Links	<p>UniProt: P02489 Related reagents</p> <p>Entrez Gene: 1409 CRYAA Related reagents</p>
Synonyms	CRYA1, HSPB4
RRID	AB_906002
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 A Crystallin antibody, clone c9F2 recognizes alpha A crystallin, a 20 kDa water-soluble major structural protein and member of the heat shock protein family, designated HSPB4, 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.</p>
Further Reading	1. Andley UP <i>et al.</i> (1996) Cloning, expression, and chaperone-like activity of human alphaA-crystallin. J Biol Chem. 271 (50): 31973-80.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/MCA2696 10049

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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