

Datasheet: MCA5692GA

BATCH NUMBER 150981

Description:	MOUSE ANTI HUMAN SULFATASE 2 (C-TERMINAL)		
Specificity:	SULFATASE 2 (C-TERMINAL)		
Other names:	SULF-2		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	2B4		
Isotype:	lgG1		
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 <u>www.bio-</u>					
	rad-antibodies.com/proto						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen						
	Immunohistology - Paraffin (1)	-					
	ELISA						
	Western Blotting	•					
	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. (1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.						
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.			
Buffer Solution	Phosphate buffered saline.			
Preservative Stabilisers	0.09% Sodium Azide.			
Carrier Free	Yes			
Approx. Protein Concentrations	IgG concentration 1.0mg/ml			
Immunogen	Recombinant human Sulf-2.			
External Database Links	UniProt:Q8IWU5Related reagentsQ8CFG0Related reagentsEntrez Gene: 55959 SULF2 72043 Sulf2Related reagents			
Synonyms	KIAA1247			
RRID	AB_10707932			
Specificity	 Mouse anti Human Sulfatase 2 (C-Terminal) antibody, clone 2B4 recognizes an epitope within the C-terminal (CT) subunit of Sulfatase 2 (Sulf-2). Sulf-2 is a novel extracellular heparan sulfate 6-O-endosulfatase, which selectively removes the critical sulfate group from the polysaccharide side chain of heparan sulfate proteoglycans, major components of the extracellular matrix, involved in cell differentiation, proliferation and migration. Sulf-2 acts as a modulator of several signalling proteins including Wnt proteins, bone morphogenetic proteins (BMPs) and fibroblast growth factors (FGFs), and is a direct transcriptional target of p53. Studies have linked Sulf-2 with several cancers, including breast, hepatocellular, and pancreatic cancer, and recently with non-small-cell lung carcinomas (Lemjabbar-Alaoui <i>et al.</i> 2010). Mature human Sulf-2 is a heterodimer consisting of a 50 kDa C-terminal subunit, essential for both glucosamine 6-O-sulfate-endosulfatase and arylsulfatase activity, and a 75 kDa N-terminal subunit which contains the catalytic centre. Mouse anti Human Sulfatase 2 (C-Terminal) antibody, clone 2B4 recognizes Sulfatase 2, showing no cross-reactivity with Sulfatase 1 in either human or mouse. 			
Histology Positive Control Tissue	Sulf-2 transfected HEK29 cells or non-small-cell lung carcinoma.			
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	Sulf-2 transfected HEK293 cell lysates. A band at 135kDa (unprocessed protein), and a fragment at 37kDa, may also be present.
References	 Lemjabbar-Alaoui, H. <i>et al.</i> (2010) Sulf-2, a heparan sulfate endosulfatase, promotes human lung carcinogenesis. <u>Oncogene. 29 (5): 635-46.</u> Lui NS <i>et al.</i> (2012) SULF2 expression by immunohistochemistry and overall survival in oesophageal cancer: a cohort study. <u>BMJ Open. 2 (6): pii: e001624.</u> Alhasan, S.F. <i>et al.</i> (2016) Sulfatase-2: a prognostic biomarker and candidate therapeutic target in patients with pancreatic ductal adenocarcinoma. <u>Br J Cancer. 115 (7): 797-804.</u> Phillips, J.J. <i>et al.</i> (2012) Heparan sulfate sulfatase SULF2 regulates PDGFRα signaling and growth in human and mouse malignant glioma. <u>J Clin Invest. 122 (3): 911-22.</u>
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
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5692GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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

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