

Datasheet: 4050-0096 **BATCH NUMBER 149948**

Description:	MOUSE ANTI HUMAN ELASTASE		
Specificity:	ELASTASE		
Other names:	ELA2		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	ELA10-101.5 (39A)		
Isotype:	lgG1		
Quantity:	0.2 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	•			
Western Blotting			•	
Immunofluorescence			•	
Functional Assays	•			

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 the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)

Stabilisers			
Approx. Protein Concentrations	0.5 mg/ml		
Immunogen	Elastase from human neutrophils.		
External Database Links	UniProt: P08246 Related reagents		
	Entrez Gene:		
	1991 ELANE Related reagents		
Synonyms	ELA2		
RRID	AB_617258		
Specificity	Mouse anti Human elastase antibody, clone 39A recognizes human neutrophil elastase, also known as elastase-2, Bone marrow serine protease, PMN elastase or Medullasin. Elastase is a 238 amino acid ~27 kDa enzyme with an additional 29 amino acid signal and pro-peptide region. Mutations of the ELA2 gene can lead to a number of hematopoietic disorders including cyclic hematopoiesis (CH) characterized by a 21 day cycle of bone marrow derived blood cell production with neutrophil numbers ranging between normal levels and almost zero (Horwitz et al. 1999) and severe congential autosomal neutropenia (SCN1) demonstating developmental arrest of granulopoiesis at the promyelocyte stage (Bellanné-Chantelot et al. 2004) with both conditions leading to a predisposition to bacterial infections.		
References	 Durant, S. <i>et al.</i> (2004) Apoptosis-induced proteinase 3 membrane expression is independent from degranulation. <u>J Leukoc Biol. 75 (1): 87-98.</u> Vong, L. <i>et al.</i> (2007) Annexin 1 cleavage in activated neutrophils: a pivotal role for proteinase 3. <u>J Biol Chem. 282 (41): 29998-30004.</u> Davies, P.L. <i>et al.</i> (2008) Monoclonal anti-neutrophil elastase antibody characterisation: ability to block function, detect free versus serpin-complexed enzyme and stain intracellular granules. <u>J Immunol Methods. 336 (2): 175-82.</u> Muthana, M. <i>et al.</i> (2015) C5orf30 is a negative regulator of tissue damage in rheumatoid arthritis. <u>Proc Natl Acad Sci U S A. 112 (37): 11618-23.</u> Buján, J. <i>et al.</i> (2003) Expression of elastic components in healthy and varicose veins. <u>World J Surg. 27 (8): 901-5.</u> Korkmaz, B. <i>et al.</i> (2005) Inhibition of neutrophil elastase by alpha1-protease inhibitor at the surface of human polymorphonuclear neutrophils. <u>J Immunol. 175 (5): 3329-38.</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/4050-0096

 Regulatory
 For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)

Goat Anti Mouse IgG IgA IgM (STAR87...)

RPE

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...) <u>FITC</u>
Goat Anti Mouse IgG (STAR77...) <u>HRP</u>

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M363071:200528'

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