

Datasheet: 2100-0657

BATCH NUMBER 158315

Description:	MOUSE ANTI HUMAN CHYMOTRYPSIN
Specificity:	CHYMOTRYPSIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CHYMO10-104.5 (4E1)
Isotype:	IgG3
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
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA	▪			
Western Blotting	▪			
Immunofluorescence	▪			

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

Species Cross Reactivity

Reacts with: Mouse, 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	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified human pancreatic chymotrypsin.
External Database Links	<p>UniProt: Q99895 Related reagents</p> <p>Entrez Gene: 11330 CTRC Related reagents</p>
Synonyms	CLCR
RRID	AB_2261171
Specificity	<p>Mouse anti Human chymotrypsin antibody, clone 4E1 recognizes human chymotrypsin-C, also known as chymotrypsin or caldecrin. Chymotrypsin is a 239 amino acid ~30 kDa protease with an additional 13 amino acid propeptide region and a 16 amino acid signal peptide.</p> <p>Variations in the CTRC gene has been associated with susceptibility to hereditary, pancreatitis (PCTT), a disease characterized by pancreatic inflammation and destruction of the parenchyma (Beer et al. 2013).</p>
References	<ol style="list-style-type: none"> 1. Jimenez, R.E. <i>et al.</i> (1999) Immunohistochemical characterization of pancreatic tumors induced by dimethylbenzanthracene in rats. Am J Pathol. 154 (4): 1223-9. 2. Larina, O.<i>et al.</i> (2007) Dynamic regulation of the large exocytotic fusion pore in pancreatic acinar cells. Mol Biol Cell. 18:3502-11. 3. Bockman, D.E. <i>et al.</i> (2003) Origin and development of the precursor lesions in experimental pancreatic cancer in rats. Lab Invest. 83 (6): 853-9. 4. Li, H. <i>et al.</i> (2009) The Ink4/Arf locus is a barrier for iPS cell reprogramming. Nature. 460: 1136-9. 5. Vincent, D.F. <i>et al.</i> (2009) Inactivation of TIF1gamma cooperates with Kras to induce cystic tumors of the pancreas. PLoS Genet. 5: e1000575. 6. Behrendorff, N. <i>et al.</i> (2011) Vesicle-associated membrane protein 8 (VAMP8) is a SNARE (soluble N-ethylmaleimide-sensitive factor attachment protein receptor) selectively required for sequential granule-to-granule fusion. J Biol Chem. 286 (34): 29627-34. 7. Guerra, C. <i>et al.</i> (2011) Pancreatitis-induced inflammation contributes to pancreatic cancer by inhibiting oncogene-induced senescence. Cancer Cell. 19: 728-39. 8. Kanayama, K. <i>et al.</i> (2016) Cytological findings of an ectopic pancreas of the stomach obtained at endoscopic ultrasound-guided fine needle aspiration, differential diagnosis from acinar cell carcinoma: a case report. Cytopathology. 27 (5): 379-81. 9. Vincent DF <i>et al.</i> (2012) Tif1γ suppresses murine pancreatic tumoral transformation by a Smad4-independent pathway. Am J Pathol. 180 (6): 2214-21. 10. Kato, Y. <i>et al.</i> (2014) Ectopic tissue consisting of a mixture of glandular gastric,

intestinal, and exocrine pancreatic tissue in the forestomach of a rat. [J Toxicol Pathol. 27 \(1\): 87-90.](#)

11. Bansal, S. *et al.*. (2015) Multilocular Pancreatic Acinar Cystadenoma Containing Areas of Multifocal Branch-Duct Intraductal Papillary Mucinous Neoplasm [J. Pancreas 15 \(5\): 475-80.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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/2100-0657>
10040

Regulatory For research purposes only

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](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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