Datasheet: 2100-0657

BATCH NUMBER 166939

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 from ascites

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified human pancreatic chymotrypsin.
External Database Links	**UniProt:** Q99895 Related reagents **Entrez Gene:** 11330 CTRC Related reagents
Synonyms	CLCR
RRID	AB_2261171
Specificity	**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. 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).
References	1. Jimenez, R.E. *et al.* (1999) Immunohistochemical characterization of pancreatic tumors induced by dimethylbenzanthracene in rats. Am J Pathol. 154 (4): 1223-9. 2. Bockman, D.E. *et al.* (2003) Origin and development of the precursor lesions in experimental pancreatic cancer in rats. Lab Invest. 83 (6): 853-9. 3. Larina, O.*et al.* (2007) Dynamic regulation of the large exocytotic fusion pore in pancreatic acinar cells. Mol Biol Cell. 18:3502-11. 4. Vincent, D.F. *et al.* (2009) Inactivation of TIF1gamma cooperates with Kras to induce cystic tumors of the pancreas. PLoS Genet. 5: e1000575. 5. Li, H. *et al.* (2009) The Ink4/Arf locus is a barrier for iPS cell reprogramming. Nature. 460: 1136-9. 6. Guerra, C. *et al.* (2011) Pancreatitis-induced inflammation contributes to pancreatic cancer by inhibiting oncogene-induced senescence. Cancer Cell. 19: 728-39. 7. Behrendorff, N. *et al.* (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. 8. Vincent DF *et al.* (2012) Tif1γ suppresses murine pancreatic tumoral transformation by a Smad4-independent pathway. Am J Pathol. 180 (6): 2214-21. 9. Kato, Y. *et al.* (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. 10. Bansal, S. *et al.*. (2015) Multilocular Pancreatic Acinar Cystadenoma Containing Areas

of Multifocal Branch-Duct Intraductal Papillary Mucinous Neoplasm J Pancreas 16 (5): 475-80.
11. Kanayama, K. *et al.* (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.

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

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

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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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