

Datasheet: 2100-0657

Description:	MOUSE ANTI HUMAN CHYMOTRYPSIN
Specificity:	CHYMOTRYPSIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	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.
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	UniProt:

Links

[Q99895](#) [Related reagents](#)

Entrez Gene:

[11330](#) CTRC [Related reagents](#)

Synonyms

CLCR

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. Larina, O.*et al.* (2007) Dynamic regulation of the large exocytotic fusion pore in pancreatic acinar cells. [Mol Biol Cell. 18:3502-11.](#)
3. 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.](#)
4. Li, H. *et al.* (2009) The Ink4/Arf locus is a barrier for iPS cell reprogramming. [Nature. 460: 1136-9.](#)
5. Vincent, D.F. *et al.* (2009) Inactivation of TIF1gamma cooperates with Kras to induce cystic tumors of the pancreas. [PLoS Genet. 5: e1000575.](#)
6. 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.](#)
7. Guerra, C. *et al.* (2011) Pancreatitis-induced inflammation contributes to pancreatic cancer by inhibiting oncogene-induced senescence. [Cancer Cell. 19: 728-39.](#)
8. 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. Jan 20. \[Epub ahead of print\]](#)
9. Vincent DF *et al.* (2012) Tif1γ suppresses murine pancreatic tumoral transformation by a Smad4-independent pathway. [Am J Pathol. 180 \(6\): 2214-21.](#)
10. 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.](#)

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG3 (HCA039...)	FITC , HRP , RPE

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