

## Datasheet: 2100-0657

<b>Description:</b>	MOUSE ANTI HUMAN CHYMOTRYPSIN
<b>Specificity:</b>	CHYMOTRYPSIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CHYMO10-104.5 (4E1)
<b>Isotype:</b>	IgG3
<b>Quantity:</b>	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](http://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

<0.1% Sodium Azide (NaN<sub>3</sub>)

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** Purified human pancreatic chymotrypsin.

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## External Database Links

### UniProt:

[Q99895](#)

[Related reagents](#)

### Entrez Gene:

[11330](#)

CTRC

[Related reagents](#)

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**Synonyms** CLCR

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**RRID** AB\_2261171

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## 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](#)).

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## 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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/2100-0657>  
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**Regulatory** For research purposes only

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## 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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