

## Datasheet: 2485-4906

<b>Description:</b>	SHEEP ANTI YEAST CYTOSINE DEAMINASE
<b>Specificity:</b>	CYTOSINE DEAMINASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

### 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
ELISA	▪			1/500 - 1/2500
Western Blotting	▪			1/100 - 1/500

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 appropriate negative/positive controls.

<b>Target Species</b>	Yeast
<b>Product Form</b>	Purified Ig - liquid
<b>Preparation</b>	Purified Ig prepared by affinity chromatography on Protein G

**Antiserum Preparation** Antisera to cytosine deaminase were raised by repeated immunisations sheep of with highly purified antigen.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Ig concentration 5mg/ml
<b>Immunogen</b>	Purified yeast cytosine deaminase.

**External Database  
Links**

**UniProt:**

[Q12178](#)

[Related reagents](#)

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**RRID**

AB\_618795

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**Specificity**

**Sheep anti cytosine deaminase antibody** recognizes cytosine deaminase, also known as cytosine aminohydrolase. Cytosine deaminase is a 158 amino acid ~18 kDa enzyme involved in the conversion of cytosine to uracil. Sheep anti Human cytosine deaminase antibody recognizes the native antigen in ELISA and has been successfully used for detection of the enzyme by western blotting ([Fuerer and Iggo 2004](#)).

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**Western Blotting**

In Western blot two bands were visualised by ECL at 13kD and 17kD.

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**References**

1. Fuerer, C. *et al.* (2004) 5-Fluorocytosine increases the toxicity of Wnt-targeting replicating adenoviruses that express cytosine deaminase as a late gene. [Gene Ther. 11: 142-51](#)
2. Hammer, K. *et al.* (2015) Engineered adenoviruses combine enhanced oncolysis with improved virus production by mesenchymal stromal carrier cells. [Int J Cancer. 137 \(4\): 978-90.](#)
3. Amon, A. *et al.* (2008) Methods and Composition for Diagnosing and Treating Cancer [US patent application US 11/767,200](#)
4. Pan, X. *et al.* (2003) Adenovirus-mediated gene transfer in the treatment of pancreatic cancer. [Pancreas. 26: 274-8.](#)
5. Conrad, C. *et al.* (2005)  $\Delta$ 24-hyCD adenovirus suppresses glioma growth *in vivo* by combining oncolysis and chemosensitization. [Cancer Gene Ther. 12: 284-94.](#)
6. Michnick, S.W. *et al.* (2010) A toolkit of protein-fragment complementation assays for studying and dissecting large-scale and dynamic protein-protein interactions in living cells. [Methods Enzymol. 470: 335-68.](#)
7. Komissarov, A. *et al.* (2017) Cytotoxic effect of co-expression of human hepatitis A virus 3C protease and bifunctional suicide protein FCU1 genes in a bicistronic vector. [Mol Biol Rep. 44 \(4\): 323-32.](#)
8. Hanauer, J.R.H. *et al.* (2019) High-affinity DARPIn allows targeting of measles virus to glioblastoma multiforme in combination with protease targeting without loss of potency. [Molecular Therapy - Oncolytics. 14. Oct \[Epub ahead of print\].](#)

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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:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [HRP](#)

**North & South** Tel: +1 800 265 7376

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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](https://bio-rad-antibodies.com/datasheets)

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