

Datasheet: 1910-8000F

Description:	SHEEP ANTI HUMAN CATHEPSIN B:FITC
Specificity:	CATHEPSIN B
Other names:	CTSB
Format:	FITC
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/1000 - 1/10000

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		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
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	Highly pure cathepsin B from human placenta.		

**External Database
Links**

UniProt:

[P07858](#) [Related reagents](#)

Entrez Gene:

[1508](#) CTSB [Related reagents](#)

Synonyms

CPSB

RRID

AB_2086828

Specificity

Sheep anti Human cathepsin B antibody detects cathepsin B, a lysosomal cysteine protease which functions as both a endopeptidase and a carboxypeptidase. Together with cathepsins D and L, cathepsin B is one of the most abundant proteases in the lysosome, and participates in intracellular protein degradation.

Cathepsin B is thought to play an increasingly important role in apoptosis and its release from the lysosome under cell stress leads to Bid cleavage, cytochrome C release and nuclear fragmentation.

Cathepsin B is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete processing of APP is thought to be a causative factor in Alzheimer disease.

Over-expression of cathepsin B has been associated with oesophageal adenocarcinoma and other tumours, and has in particular been implicated in tumour invasion and metastasis.

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. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

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

Regulatory

For research purposes only

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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://www.bio-rad-antibodies.com/datasheets)

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