

Datasheet: MCA2460 BATCH NUMBER 152956

Description:	MOUSE ANTI SHEEP CD230 (aa151 - aa159)
Specificity:	CD230 (aa151 - aa159)
Other names:	PRION PROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2G11
Isotype:	lgG2a
Quantity:	0.25 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 <u>www.bio-rad-antibodies.com/protocols</u>.

Yes	No	Not Determined	Suggested Dilutior
■			
			1/50 - 1/1000
		-	
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Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1)Treatment of tissue sections in 98% formic acid, for 30 minutes, is recommended prior to pre-treatment with trypsin at 37°C for 5 minutes followed by heat mediated retrieval with 10mM citrate buffer pH6.0 See <u>Andreoletti 2000</u>.

Target Species	Sheep		
Product Form	Purified IgG - liquid		
Preparation	Purified IgG prepared by affinity chromatography on Protein (supernatant	G from tissue culture	

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Synthetic peptide 146-R ¹⁵⁴ R ¹⁷¹ -182 of ovine PrP.
External Database Links	UniProt: P23907 Related reagents Entrez Gene: 493887 PRNP Related reagents
Synonyms	PRP, SIP
RRID	AB_808711
Specificity	 Mouse anti Sheep CD230 (aa151 - aa159) antibody, clone 2G11 recognizes CD230 and can be used to detect the plaques which are formed during the progression of prion disease. Transmissible spongiform encephalopathies (TSEs) or prion diseases are fatal infectious neurodegenerative diseases of humans and animals. These diseases are biologically unique, as they are believed by some to be transmitted by an infectious agent comprised only of protein, with no nucleic acid component. Clinically, these diseases present with motor disturbances and behavioural changes. The major pathological changes seen are neuronal loss, vacuolation (spongiform change), proliferation and branching of glial cells, astrocytic proliferation and accumulation of the prion protein PrP^{Sc}, which can form amyloid plaques. CD230. also known as the prion protein (PrP) exists in two alternate forms; a normal cellular form (PrP^c) and a disease-associated form (PrP^{Sc}). The normal and pathological forms of the prion protein have identical amino acid sequences and differ only in their folded tertiary structure and biochemical properties. MCA2460 was raised against a synthetic peptide (146-R¹⁵⁴R¹⁷¹-182) of the ovine PrP peptide and specifically recognises the R¹⁵¹-R¹⁵⁹ sequence.
ELISA	Tested on peptide.
References	 Andréoletti, O. <i>et al.</i> (2000) Early accumulation of PrP(Sc) in gut-associated lymphoid and nervous tissues of susceptible sheep from a Romanov flock with natural scrapie. J <u>Gen Virol. 81 (Pt 12): 3115-26.</u> Andréoletti, O. <i>et al.</i> (2002) Phenotyping of protein-prion (PrPsc)-accumulating cells in lymphoid and neural tissues of naturally scrapie-affected sheep by double-labeling

	 immunohistochemistry. J Histochem Cytochem. 50 (10): 1357-7 3. Ortiz-Pelaez, A. <i>et al.</i> (2015) Allelic variants at codon 146 in significant differences in the risk for natural scrapie in Cypriot g (6): 1304-10. 4. Simmons, M.M. <i>et al.</i> (2015) Phenotype shift from atypical se experimental transmission in sheep. PLoS One. 10 (2): e01170 5. Borner, R. <i>et al.</i> (2011) Early behavioral changes and quantit neuropathological features in murine prion disease: stereologic Swiss mice model. Prion. 5 (3): 215-27. 	the PRNP gene show poats. <u>Epidemiol Infect. 143</u> crapie to CH1641 following <u>063.</u> tative analysis of
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 freezin denature the antibody. Should this product contain a precipitate microcentrifugation before use.	• • •
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/MCA2460 10040	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M374407:201103'

Printed on 19 Jan 2024

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