Datasheet: MCA2460

**Description:** MOUSE ANTI SHEEP CD230 (PrPSc)

**Specificity:** CD230 (PrPSc)

**Other names:** PRION PROTEIN

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** 2G11

**Isotype:** IgG2a

**Quantity:** 0.25 mg

**RRID** AB_808711

**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).

<table>
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<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Flow Cytometry</td>
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<td>Immunoprecipitation</td>
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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 pH 6.0. See [Andreoletti 2000](http://www.ncbi.nlm.nih.gov/pubmed/10320088).

**Target Species** Sheep

**Product Form** Purified IgG - liquid

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**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

Specificity

Mouse anti Sheep CD230 (PrpSc) antibody, clone 2G11 recognizes the prion disease form of prion protein known as CD230. 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 is specific for PrP^{Sc}. This clone does not appear to immunostain the normal cellular PrP expressed in healthy sheep tissue sections resulting in specific labelling of ovine PrP^{Sc}. This antibody was raised against a synthetic peptide (146-R^{154}R^{171}-182) of the ovine PrP peptide and specifically recognises the R^{151}-R^{159} sequence.

ELISA

Tested on peptide.

References


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
Guarantee
18 months from date of despatch.

Health And Safety Information

Regulatory
For research purposes only

Related Products

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG, IgA, IgM (STAR87...) **Alk. Phos., HRP**
- Goat Anti Mouse IgG (STAR77...) **HRP**
- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Goat Anti Mouse IgG (STAR76...) **RPE**
- Goat Anti Mouse IgG (STAR70...) **FITC**
- Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**
- Rabbit Anti Mouse IgG (STAR9...) **FITC**
- Human Anti Mouse IgG2a (HCA037...) **FITC, HRP**
- Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP**