Datasheet for ABIN180947

anti-PRNP antibody

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Overview

Quantity:	0.25 mg
Target:	PRNP
Reactivity:	Sheep
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PRNP antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Synthetic peptide 146-Re154Re171-182 of ovine PrP
Clone:	2G11
Isotype:	IgG2a
Specificity:	This antibody recognises the scrapie-associated protease-resistant isoform (PrPsc) of ovine prion protein (PrP). Clone 2G11 specifically recognises the Re151-Re159 sequence and does not recognise the non-pathogenic PrPec form.
Characteristics:	Synonyms: Major prion protein, PrP27-30, PrP33-35C, ASCR, PRNP, PRIP
Purification:	Affinity chromatography on Protein G

Target Details

Target:	PRNP

Target Details

Alternative Name:	CD230 / PrP (PRNP Products)
Background:	The prion protein is encoded by the PrP gene and is constitutively expressed as the normal cellular isoform PrPec by many cell types. Transmissible spongiform encephalopathies (TSE) are neurodegenerative diseases in which the accumulation of the abnormal PrPesc isoform in tissues, of the lymphoid and central nervous system, is thought to be a key event. Studies suggest that PrPesc is the causative agent of transmissible spongiform encephalitis (TSE) but this has not been confirmed.Synonyms: ASCR, Major prion protein, PRIP, PRNP, PrP27-30, PrP33-35C
Gene ID:	493887
UniProt:	P23907
Pathways:	Transition Metal Ion Homeostasis, Activated T Cell Proliferation

Application Details

Application Notes:	ELISA: 1/50 - 1/1000, Tested on peptide. Immunohistochemistry on paraffin sections: suitable for use on tissue fixed in 4 % neutralbuffered formalin. Treatment of tissue sections in 98 % formic acid, for 30 minutes, isrecommended prior to pre-treatment with trypsin at 37C for 5 minutes followed by heatmediated retrieval with 10 mM citrate buffer pH 6.1. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, pH 7.4 containing 0.09 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Handling

Expiry Date:	12 months

Publications

Product cited in:

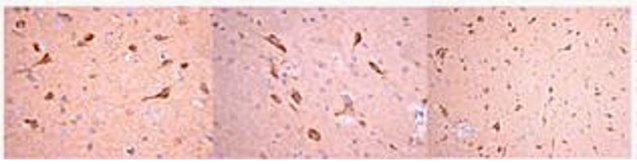
Reil, Bux: "Geno- and phenotyping of human neutrophil antigens." in: **Methods in molecular biology (Clifton, N.J.)**, Vol. 1310, pp. 193-203, (2016) (PubMed).

Lederle, Hartenstein, Meides, Kunzelmann, Werb, Angel, Mueller: "MMP13 as a stromal mediator in controlling persistent angiogenesis in skin carcinoma." in: **Carcinogenesis**, Vol. 31, Issue 7, pp. 1175-84, (2010) (PubMed).

Rolhion, Barnich, Bringer, Glasser, Ranc, Hébuterne, Hofman, Darfeuille-Michaud: "Abnormally expressed ER stress response chaperone Gp96 in CD favours adherent-invasive Escherichia coli invasion." in: **Gut**, Vol. 59, Issue 10, pp. 1355-62, (2010) (PubMed).

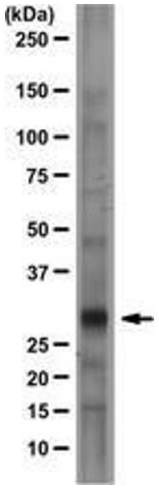
Andréoletti, Berthon, Levavasseur, Marc, Lantier, Monks, Elsen, Schelcher: "Phenotyping of protein-prion (PrPsc)-accumulating cells in lymphoid and neural tissues of naturally scrapie-affected sheep by double-labeling immunohistochemistry." in: **The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society**, Vol. 50, Issue 10, pp. 1357-70, (2002) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry: 1:50-1:300 working dilutions of anti-Prion Protein, clone 2G11 localizes prion protein in rat brain paraffin embedded tissue (High & Low Magnification).



Western Blotting

Image 2. Rat brain lysate was resolved by electrophoresis, transferred to PVDF and probed with anti-Prion Protein, clone 2G11 (1 µg/mL). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence detection system. Arrow indicates Prion Protein (~27 kDa)

