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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Prion protein [VRQ14] Standard Size Ab00752-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: VRQ14

Alternative Name(s) of Target: PrP scrapie-sensitve variant VRQ; PrP; major prion protein; CD230

UniProt Accession Number of Target Protein: P23907

Published Application(s): crystallization, IP, ELISA

Published Species Reactivity: Sheep

Immunogen: The VRQ14 antibody was prepared by immunizing Prnp0/0 mice with the C-terminal domain of recombinant ovine VRQ variant prion protein. The Fab fragment was produced by digestion with papain.

Specificity: VRQ14 binds to both PrPC (host prion protein) and to PrPSc (pathogenic isoform of the prion protein) - the epitope of the antibody mainly consists of PrP residues 188-199 (C-terminal part of helix H2 and N-terminal part of the H2-H3 loop). Misfolding and aggregation of mutated protein PrP leads to prion diseases which are associated with the conversion of the α -helix rich prion protein (PrPC) into a β -structure-rich insoluble conformer (PrPSc). Prion diseases are neurodegenerative pathologies which affect numerous mammalian species and different mutations in the PRNP gene result in protein products with different susceptibilities to causing disease.

Application Notes: VRQ14 can be used to facilitate the crystallisation of ovine PrP in addition to being used in (sandwich) ELISA and IP studies.

Antibody First Published in: Eghiaian et al. Insight into the PrPC-->PrPSc conversion from the structures of antibody-bound ovine prion scrapie-susceptibility variants. Proc Natl Acad Sci U S A. 2004 Jul 13;101(28):10254-9. Epub 2004 Jul 6. [PMID:15240887](#)

Note on publication: Describes the use of VRQ14 in helping to deduce the PrPC to PrPSc transition and to aid the crystallisation of PrP.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.