



## Product Information

Edition: 2013-04-25

**Prion protein specific mAb 3A2**, mouse monoclonal antibody for detection of prion protein (PrP)

**Article number:**

3A2/200 for quantity 0.2mg IgG

3A2/500 for quantity 0.5mg IgG

**Batch:** 051112-PrP-3A2

**Shipping:** with cool pack

**Storage:** at 0-5°C ready for use (or aliquot and store at -20°C to avoid repeated freezing/thawing)

**Quantity:** 0.5mg or 0.2mg IgG (larger quantities on request)

**Format:** liquid (advice: briefly spin the vial in a centrifuge to dislodge any liquid from the cap)

**Concentration:** 1.0mg IgG per ml (based on UV280nm measurement with factor 1.43AU@1cm), in PBS pH7.2 as buffer, with 0.02% sodium azide as preservative.

**Clone name:** 76.3A2

**Isotype:** IgG2b κ

**Purification:** purified from culture supernatant by Protein G column chromatography, followed by dialysis and 0.2µm membrane filtration.

**PrP antigen gene name:** Prnp

**Immunogen:** synthetic peptide with sequence GGGGWGQGGTHGQWNKPSK derived from the amino acid sequence of the wild-type PrP molecule for the bovine species (bovinePrP97-115).

**Selection:** Prnp<sup>0/0</sup> mice were injected with the immunogen and spleen cells were fused with SP2/0 myeloma cells.

**Epitope:** WGQGG (bovinePrP101-105 ; derived by Pepscan analysis and confirmed by blocking the binding to PrP with synthetic peptide)

**Expected species (cross) reactivity:** broad (no known species differences in epitope sequence; tested on bovine, ovine, caprine, cervid and murine TSEs).

**Application:** as capturing or detecting antibody in prion research on biological samples, body fluids, cells, tissue sections and homogenates. For use in Western blot, IHC, ELISA, RIA, FACS, immunoprecipitation, dot-blot, PET-blot.

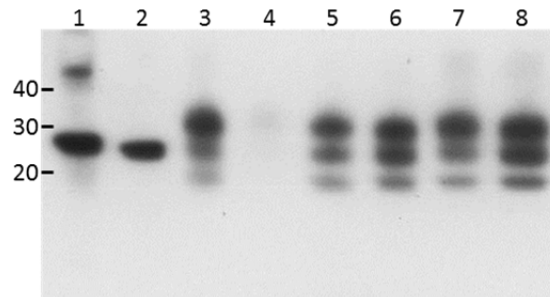
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+31320238668, E-mail: [reagents.cvi@wur.nl](mailto:reagents.cvi@wur.nl) , Web: [www.wageningenur.nl/prionantibody](http://www.wageningenur.nl/prionantibody)

## Examples:

### Western blot:

PVDF membrane incubated with 0.5µg/ml primary antibody; secondary antibody rabbit anti-mouse Ig alkaline phosphatase; CDP-Star substrate



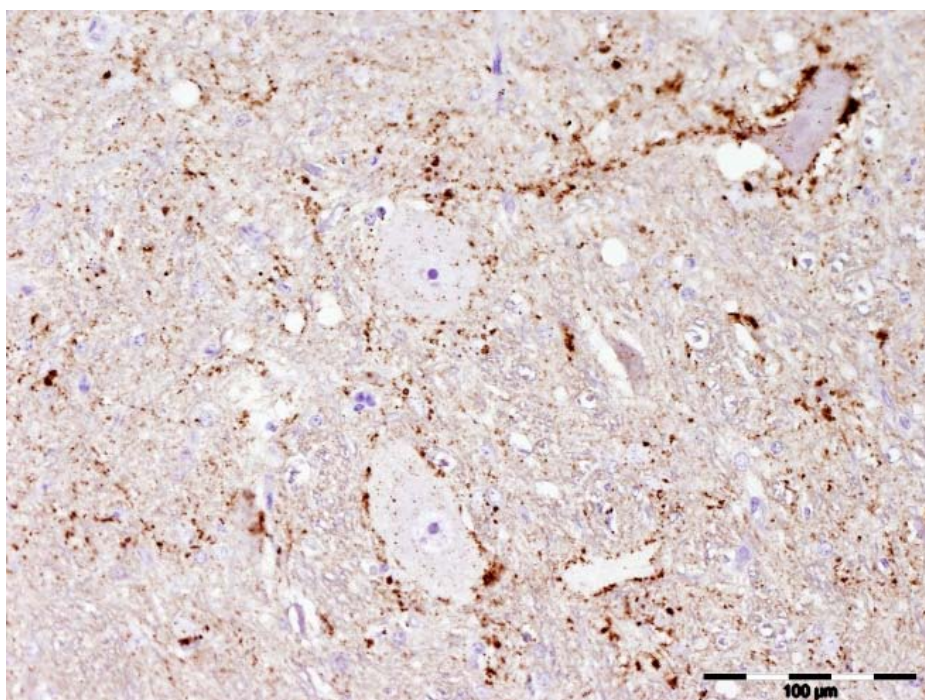
| lane | sample   | digestion | Amount*  | Signal** |
|------|--|-----------|----------|----------|
| 1    | recombinant E.Coli bovine wt PrP25-242 (6-octarepeats) | No        | 5ng      | ++       |
| 2    | recombinant E.Coli ovine wt PrP25-234 (ARQ)            | No        | 5ng      | ++       |
| 3    | classical scrapie ovine brain stem                     | +PK       | 0.02mgTE | ++       |
| 4    | C-type BSE in bovine brain stem                        | +PK       | 0.1mgTE  | -/(+)    |
| 5    | H-type BSE in bovine brain stem                        | +PK       | 0.25mgTE | ++       |
| 6    | CWD in North-American elk brain                        | +PK       | 0.5mgTE  | ++       |
| 7    | 301V in VM murine brain                                | +PK       | 0.02mgTE | ++       |
| 8    | ME7 in RIII murine brain                               | +PK       | 0.02mgTE | ++       |

\*TE= tissue equivalents

\*\*See also our sheet with our different PrP-specific antibodies

### Immunohistochemistry:

Natural classical scrapie infected ovine brain stem with 1µg/ml primary antibody. Bar length is 100 µm. Formalin fixed tissues are routinely dehydrated and processed into paraffin. Tissue sections (4 µm) are mounted on silane coated slides and dried. The sections are deparaffinized in xylene and decreasing gradients of ethanol while the endogenous peroxidase activity is abolished with hydrogen peroxide in methanol. Pretreatment of tissue sections consists of 30 minutes immersion in formic acid followed by 5 minutes autoclaving in citrate solution pH6. After incubation with primary antibody the development takes place with EnVision-PO and DAB, followed by HE staining.



**Research Use Only:** This product is for Research Use Only and must not be used for diagnostic , therapeutic or manufacturing purposes.

**Health, Safety and Waste:**

All users of this product must ensure that:

- (i) This product's specification is safe for their intended use
- (ii) The product is handled in a safe manner using good laboratory practice and in accordance with any relevant local or national regulations pertaining to the use of such products; and
- (iii) Any waste originating from the product or its use is disposed of in accordance with any relevant local or national regulations.

**References:**

Not published. Prepared from same mouse spleen as 12B2 and found to be identical in epitope specificity and behaviour with 12B2.

Animal for immunization:

PrP<sup>0/0</sup> mice, knock-out for PrP

Büeler H, Fischer M, Lang Y, Bluethmann H, Lipp HP, DeArmond SJ, Prusiner SB, Aguet M, Weissmann C. Normal development and behaviour of mice lacking the neuronal cell-surface PrP protein. Nature. 1992 Apr 16;356(6370):577-82.

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