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Most used antibody in prion research.

MONOCLONAL ANTIBODY 6H4

A HIGHLY VERSATILE ANTI-PRION ANTIBODY FOR USE IN MANY APPLICATIONS. DETECTS HUMAN, CATTLE, SHEEP, RABBIT, MINK AND VARIOUS PRIMATE PRION PROTEINS.

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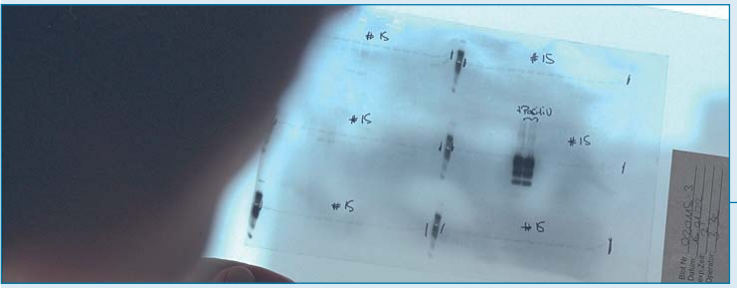
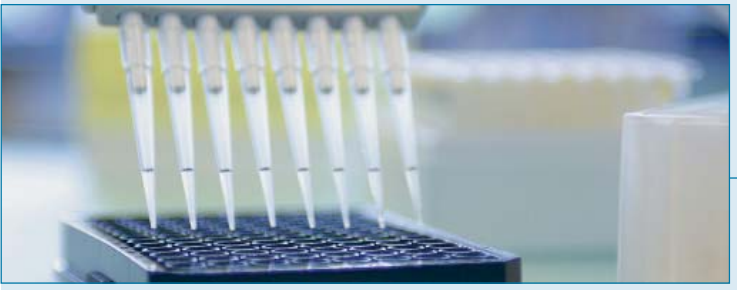
MAB 6H4
Most used anti-prion antibody





mAb 6H4
Prod. No. 01-010 (100 µg)
Prod. No. 01-011 (1 mg)

Related products
mAb 34C9
Prod. No. 01-020 (100 µg)
Prod. No. 01-021 (1 mg)

Recombinant bovine prion protein
Prod. No. 03-010 (100 µg)

MAB 6H4

Prionics offers the monoclonal antibody 6H4 for the detection of prion proteins. 6H4 recognizes cattle, sheep, rabbit, mink, mouse, hamster and rat prion protein as well as PrP of a variety of primates. The antibody is described in over 65 scientific publications.

Description

Monoclonal antibody (mAb) 6H4 is a mouse IgG1 subtype antibody, light chain: k subtype. mAb 6H4 recognizes the sequence DYEDRYYRE of the prion protein (human PrP: amino acids 144 - 152). This sequence is conserved in most known mammalian PrP sequences (human, cattle, sheep, rabbit, mink, and a variety of primates). In mouse, hamster and rat, the tyrosine at position 145 is replaced by a tryptophan. However, mAb 6H4 reacts on Western blots with mouse and hamster PrP indicating that the substitution at position 145 does not prevent binding of 6H4.
The antibody is delivered as a culture supernatant of over 95% pure antibody, approx. 0.5-2.0 mg/ml, see vial label.

Applications

The antibody is used in numerous scientific publications and applied in several methods, including Western Blot, ELISA, immunohistochemistry, immunoprecipitation, PET blot and FACS analysis. The antibody is also the principle component of all of Prionics® -Check TSE kits.
Concentrations for use:

Application	conc. µg/ml
Western Blot	0.1 - 0.4
ELISA	0.1 - 0.4
IHC	0.1 - 1
PET blot	0.4

Check www.prionics.com for detailed application protocols.

Custom-made conjugates

The antibody is also offered as custom-made conjugates. Please contact info@prionics.com to check which conjugates we can make for you.

Used in over 65 scientific publications

Cordes H et al. (2008) **Characterisation of new monoclonal antibodies reacting with prions from both human and animal brain tissues**. J Immunol Methods 337: 106-20.

Holada K et al. (2007) **Divergent expression of cellular prion protein on blood cells of human and nonhuman primates.** Transfusion 47:2223-2232.

Hayashi HK et al. (2005) **The N-terminal cleavage site of PrP^{Sc} from BSE differs from that of PrP^{Sc} from scrapie.** Biochem Biophys Res Comm. 328:1024-1027.

Jeffrey M et al. (2006) **Ovine infection with the agents of scrapie (CH1641 isolate) and Bovine Spongiform Encephalopathy: Immunochemical similarities can be resolved by immunohistochemistry.** J Comp Pathol. 134:17-29.

Kovacs et al. (2002) **Immunohistochemistry for the prion protein: comparison of different monoclonal antibodies in human prion disease subtypes.** Brain Pathol 12:1-11.

Chaplin MJ et al. (2002) **Evaluation of the effects of controlled autolysis on the immunodetection of PrP^{Sc} by immunoblotting and immunohistochemistry from natural cases of scrapie and BSE.** Res Vet Sci. 72:37-43.

Korth C et al. (1997) **Prion (PrP^{Sc})-specific epitope defined by a monoclonal antibody.** Nature 390:74-77.

Check www.prionics.com for a complete list of publications.

1-09/06

CONTACT INFORMATION

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