

Polyclonal Antibody to Bovine Spongiform Encephalopathy / BSE (142-148) - Purified

Catalog No.: AP21634PU-N

Quantity: 0.1 mg

Concentration: 0,5 mg/ml

Background: BSE, also known as prion protein, is a membrane glycosylphosphatidylinositol-anchored glycoprotein belonging to the prion family of proteins and is responsible for several transmissible neurodegenerative spongiform encephalopathies. Though the exact function of BSE is not clear, reports suggest that it has a tendency to aggregate forming polymers known as rods and might act as a signaling neurotransmitter. BSE acts as a potent anti-apoptotic protein against BAX-mediated cell-death. Expression is higher in the brain of humans and animals infected with several degenerative neurological diseases such as kuru, Creutzfeldt-Jakob disease (CJD), Gerstmann-Straussler syndrome (GSS), scrapie, bovine spongiform encephalopathy (BSE), and transmissible mink encephalopathy (TME). Aberration in this protein is also associated with fatal familial insomnia and Huntington disease-like 1.

Host: Rabbit

Immunogen: Amino acids 142-148 of BSE protein

Format: **State:** Liquid purified Ig fraction
Purification: Protein G Chromatography
Buffer System: PBS containing 0.2% gelatin and 0.05% sodium azide

Applications: Western blot: 0.5 - 2 µg/ml.
Recommended Positive Control: Recombinant fusion protein
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts to Bovine Spongiform Encephalopathy (BSE).
Species: Sheep, Cow.
Other species not tested.

Storage: 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.

General Readings: 1. Korth C, Stierli B, Streit P, Moser M, Schaller O, Fischer R, et al. Prion (PrPSc)-specific epitope defined by a monoclonal antibody. Nature. 1997 Nov 6;390(6655):74-7. PubMed PMID: 9363892.

Pictures:

Western blot analysis of BSE in (A) recombinant fusion protein containing amino acids 142-148 and (B) fusion partner without these amino acids, using AP21634PU-N at 0.5 µg/ml.

