
Monoclonal anti-Polyglutamine
Polyglutamine-expansion diseases Marker

#Cat: NB-01-0094

Size: 100 µl

Format: Crude Ascites fluids

Clones: 5TF1-1C2-17.2

Immunogen: N-terminal part of human TATA Box Binding Protein (TBP)

Murine Isotype: IgG1K

Specificity: The epitope of the 1C2 antibody was found to be a homopolymeric glutamine stretch. The original Immunogen was the general transcription factor TATA box-binding protein (TBP) which contains a 38-glns stretch (Lescure & al). Other polyglutamine-containing proteins are recognized by the 1C2 antibody, notably those involved in several human neurodegenerative diseases caused by a CAG repeat expansion, like Huntington's disease and spinocerebellar ataxia type 2,3 and 7 (Trottier et al Nature). Importantly, for proteins involved in these neurodegenerative disorders, the 1C2 antibody showed the remarkable property of detecting much better the pathological proteins that contain a polyglutamine expansion (>37 glns) than the wild type proteins (Trottier & al-1995,1998). 1C2 has been used to identify new neurodegenerative disease caused by polyglutamine expansion and to help for cloning of the corresponding affected genes (Trottier 1995-1998 ; Imbert 1996; Stevanin 1996). 1C2 is also able to detect intracellular inclusions, which is a hallmark of such diseases (Paulson,1997).

Applications:

- Elisa
- Immunohistochemistry on frozen and paraffin Sections (Human tissues)
- Immunocytochemistry on transfected cells
- Immunoprecipitation
- Western Blot

Recommended dilutions: 1/1000-1/20000

Storage:

- Store at -20°C (up to 3 years). Avoid repeated freezing and thawing cycles
- Does not contain any Preservative

References:

Lescure & al, Embo J. (1994) 13 1166-1175

Trottier & al, Nature (1995) 378 403-406

Imbert & al, Nature Genetics (1996) 14 285-291

Stevanin & al, Hum. Mol. Genet. (1996) 5 1887-1892

These products are intended for research purposes only.

MATERIAL SAFETY DATA SHEET INFORMATION

To the best of our knowledge, these products do not require a Material Safety Data Sheet. However, all the properties of these products (and, if applicable, each of their components) have not been thoroughly investigated. Therefore, we recommend that you use gloves and eye protection, and wear a laboratory coat when working with these products.