

Anti-Polyglutamine [1C2] Bulk size M Ab02004-1.27-BS

This is a Fab fragment with no tags.

Isotype and Format: Mouse Fab fragment, Kappa

Clone Number: 1C2

Alternative Name(s) of Target: PolyQ; Glutamine repeats; TATA binding protein; TBP

UniProt Accession Number of Target Protein: P20226

Published Application(s): IP, WB, ELISA

Published Species Reactivity: Human

Immunogen: This antibody was raised against the full length TATA binding protein (TBP) containing a poly Q sequence with 38 repeats of glutamine and collected from the ascites fluid of the mice.

Specificity: This antibody binds the extended polyglutamine repeats found in the TATA binding protein. It is reported that the affinity of this mAb is proportional to the length of the polyglutamine chain and that this antibody recognizes polyQ stretches with 11, 22 and 41 amino acids.

Application Notes: This antibody recognizes recombinant and endogenous HeLa cell TBP in Western blots. Epitope mapping of the antibody was done using ELISA by incubating the mAbs with synthetic overlapping peptides having 150 amino acids from the N-terminal of the HeLa cell TBP. This antibody immunoprecipitates native TFIID from phosphocellulose 1 M KCl fractions indicating that the N-terminal region of TBP is not blocked by TBP binding proteins. It is reported that mAb 1C2 selectively inhibited in vitro transcription from TATA-containing, but not from TATA-less promoters, irrespective of whether they were transcribed by Pol II or Pol III (PMID:7510635). This antibody is reported to successfully recognize the polyglutamine chains of mutated alleles of protein from several human neurodegenerative diseases caused by a CAG repeat expansion, like Huntington's disease and spinocerebellar ataxia type 2, 3 and 7 (PMID: 7477379). It is reported that this antibody recognises the linear and extended conformations of polyglutamine (PMID: 23777629).

Antibody First Published in: Lescure et al. The N-terminal domain of the human TATA-binding protein plays a role in transcription from TATA-containing RNA polymerase II and III promoters. EMBO Journal (1994); Vol. 13 ;no.5 pp. 1; 166 - 1175. [PMID:7510635](#)

Note on publication: Describes the characterization and role of this antibody to inhibit in-vitro transcription from TATA-containing promoter.

Product Form

Size:

5 mg Purified antibody in bulk size.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: See vial label

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