

Product Information

Monoclonal Anti-XTP3-B, clone XTP3-10 produced in mouse, purified immunoglobulin

Catalog Number **SAB4200339**

Product Description

Monoclonal Anti-XTP3-B (mouse IgG2b isotype) is derived from the hybridoma XTP3-10 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to an internal region of human XTP3-B (GenID: 27248), conjugated to KLH. The corresponding sequence differs by one amino acid in mouse and rat. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-XTP3-B recognizes human XTP3-B. The antibody may be used in various immunochemical techniques including immunoblotting (~54 kDa) and immunoprecipitation. Detection of the XTP3-B band by immunoblotting is specifically inhibited by the immunizing peptide.

XTP3-B (XTP3-transactivated gene B precursor, also known as Erlectin) is an ER-resident lectin involved in ER quality control. XTP3-B contains two mannose-6-phosphate receptor homology (MRH) domains in its sequence. XTP3-B plays a role in ERAD selection and targeting processes. Human XTP3-B associates with the SEL1L/HRD1 ubiquitin ligase complex in the ER membrane, and with the ER chaperone BiP, forming an ER quality control scaffold complex. This large complex, which also contains the OS-9 ER lectin, is involved in the recognition and sorting of misfolded glycoproteins and non-glycosylated proteins prior to retrotranslocation into the cytoplasm for degradation.¹⁻⁴

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 2-5 µg/mL is recommended using whole extracts of HEK-293T cells over-expressing human XTP3-B.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Cruciat, C.M., et al., *J. Biol. Chem.*, **281**, 12986-12993 (2006).
2. Tamura, T., et al., *Trends Biochem. Sci.*, **33**, 298-300 (2008).
3. Christianson, J.C., et al., *Nat. Cell Biol.*, **10**, 272-282 (2008).
4. Hosokawa, N., et al., *J. Biol. Chem.*, **283**, 20914-20924 (2008).

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