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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Softag 1 [NT73] Standard Size Ab02006-1.1

Isotype and Format: Mouse IgG1, Kappa

Clone Number: NT73

Alternative Name(s) of Target: rpoC; tabB; epitope tag (SLAELLNAGLGGS); DNA-directed RNA polymerase subunit beta, RNAP subunit beta, RNA polymerase subunit beta, Transcriptase subunit beta

UniProt Accession Number of Target Protein: P0A8T7

Published Application(s): WB, ELISA

Published Species Reactivity: E.coli

Immunogen:

Specificity: This antibody recognizes and binds an epitope located at the C terminus of beta subunit of the Escherichia coli RNA polymerase. It specifically binds a 13-amino-acid long sequence 'SLAELLNAGLGGS'.

Application Notes: This antibody was initially generated for purification of Escherichia coli RNA polymerase because of its ability to release the RNA polymerase in the presence of a low molecular weight polyhydroxylated compound (polyol) and a non-chaotropic salt. Such antibodies were termed as "polyol responsive" MAbs. Using NT73 conjugated to Sepharose, highly active RNA polymerase could be prepared rapidly by a single immunoaffinity chromatography step, replacing two lengthy chromatographic steps in the conventional purification procedure. The polyol-responsiveness of the antibody was determined by an ELISA-elution assay (PMID: 1637835). Later on the epitope of the antibody was recognized and found to be a 13-amino-acid sequence 'SLAELLNAGLGGS' which was converted to an epitope tag that can be fused to a protein of interest for use as a purification tag. This epitope tag called 'Softag1' was fused to either the N or the C terminus of the green fluorescent protein. These tagged proteins were expressed in E. coli, and the tagged proteins were purified from the soluble fraction by a single-step immunoaffinity chromatography procedure. This approach extends the powerful technique of gentle-release immunoaffinity chromatography to many expressed proteins (PMID: 14656522). The scFv variants of this antibody loses considerable affinity for its antigen, however it maintains similar polyol-responsiveness as the parent monoclonal antibody (PMID: 16216525).

Antibody First Published in: Thompson et al. Isolation and characterization of a polyol-responsive monoclonal antibody useful for gentle purification of Escherichia coli RNA polymerase. Biochemistry (1992); 31(30):7003-8. [PMID:1637835](#)

Note on publication: Describes the generation and characterization of the antibody.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

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