

EXO1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2871a**Specification**

EXO1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9UQ84](#)**EXO1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 9156**Other Names**

Exonuclease 1, hExo1, 31--, Exonuclease I, hExoI, EXO1, EXOI, HEX1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2871a](/products/AP2871a) was selected from the N-term region of human EXO1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EXO1 Antibody (N-term) Blocking Peptide - Protein Information**Name** EXO1**Synonyms** EXOI, HEX1**Function**

5'→3' double-stranded DNA exonuclease which may also possess a cryptic 3'→5' double-stranded DNA exonuclease activity. Functions in DNA mismatch repair (MMR) to excise mismatch-containing DNA tracts directed by strand breaks located either 5' or 3' to the mismatch. Also exhibits endonuclease activity against 5'-overhanging flap structures similar to those generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment. Required for somatic hypermutation (SHM) and class switch recombination (CSR) of immunoglobulin genes. Essential for male and female meiosis.

Cellular Location

Nucleus Note=Colocalizes with PCNA to discrete nuclear foci in S-phase

Tissue Location

Highly expressed in bone marrow, testis and thymus. Expressed at lower levels in colon, lymph nodes, ovary, placenta, prostate, small intestine, spleen and stomach

EXO1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

EXO1 Antibody (N-term) Blocking Peptide - Images**EXO1 Antibody (N-term) Blocking Peptide - Background**

EXO1 is a protein with 5' to 3' exonuclease activity as well as an RNase H activity. This protein is similar to the *Saccharomyces cerevisiae* protein Exo1 which interacts with Msh2 and which is involved in mismatch repair and recombination.

EXO1 Antibody (N-term) Blocking Peptide - References

Tishkoff D.X., Amin N.S., Viars C.S. *Cancer Res.* 58:5027-5031(1998) Lee B.-I., Nguyen L.H., *Nucleic Acids Res.* 30:942-949(2002) Alam N.A., Gorman P., Jaeger E.E.M. *Cancer Genet. Cytogenet.* 147:121-127(2003) Knudsen N.O., Nielsen F.C., Vinther L. *Nucleic Acids Res.* 35:2609-2619(2007)