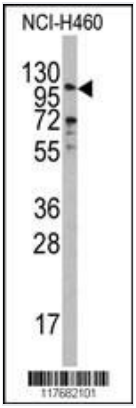
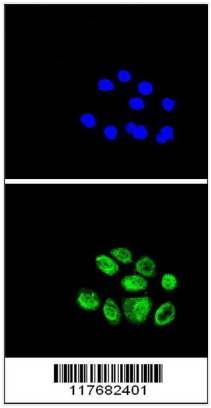
EXO1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EXO1, Polyclonal Antibody
Full Product Name	EXO1, NT (Exonuclease I, hExoI, Exonuclease 1, hExo1, EXOI, HEX1) (HRP)
Product Gene Name	anti-EXO1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human EXO1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates.
Molecular Weight	94.103
OMIM	606063
3D Structure	ModBase 3D Structure for Q9UQ84
Immunogen	Synthetic peptide selected from the N-terminal region of human EXO1 (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-EXO1 antibody	Antibodies; Enzymes; Exonuclease
Applications Tested/Suitable for anti-EXO1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-EXO1 antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-EXO1 antibody	MBS6475422 is an antibody targeting EXO1. Also known as EXO1, NT (Exonuclease I, hExoI, Exonuclease 1, hExo1, EXOI, HEX1) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-EXO1 antibody	1. Tishkoff D.X., Amin N.S., Viars C.S.Cancer Res. 58:5027-5031(1998). 2. Lee B.-I., Nguyen L.H., Nucleic Acids Res. 30:942-949(2002). 3. Alam N.A., Gorman P., Jaeger E.E.M.Cancer Genet. Cytogenet. 147:121-127(2003). 4. Knudsen N.O., Nielsen F.C., Vinther L.Nucleic Acids Res. 35:2609-2619(2007).
Other Notes	Small volumes of anti-EXO1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-EXO1 antibody
Western blot analysis of anti-EXO1 Antibody (N-term) in NCI-H460 cell line lysates (35ug/lane). EXO1 (arrow) was detected using the purified Pab.



Immunofluorescence (IF) of anti-EXO1 antibody
Confocal immunofluorescent analysis of EXO1 Antibody (N-term) with A549 cell followed by Alexa Fluor 489-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EXO1. It may not necessarily be applicable to this product.

NCBI GI #	284055278
NCBI GeneID	9156
NCBI Accession #	NP_006018
UniProt Primary Accession #	Q9UQ84
UniProt Related Accession #	Q9UQ84
GenBank Nucleotide #	NP_006018.4
NCBI Official Full Name	exonuclease 1 isoform b
NCBI Official Synonym Full Names	exonuclease 1
NCBI Official Symbol	EXO1
NCBI Official Synonym Symbols	HEX1; hExoI
UniProt Protein Name	Exonuclease 1
UniProt Synonym Protein Names	Exonuclease I
Protein Family	Exodeoxyribonuclease
UniProt Gene Name	EXO1
UniProt Synonym Gene Names	EXOI; HEX1; hExo1; hExoI
UniProt Entry Name	EXO1_HUMAN
NCBI Protein Information	exonuclease 1
NCBI Summary for EXO1	This gene encodes a protein with 5' to 3' exonuclease activity as well as an RNase H activity. It is similar to the Saccharomyces cerevisiae protein Exo1 which interacts with Msh2 and which is involved in mismatch repair and recombination. Alternative splicing of this gene results in three transcript variants encoding two different isoforms. [provided by RefSeq, Jul 2008]

UniProt Comments for EXO1	EXO1: 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. Belongs to the XPG/RAD2 endonuclease family. EXO1 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Hydrolase; EC 3.1.-.- Chromosomal Location of Human Ortholog: 1q43 Cellular Component: nucleoplasm; nucleus Molecular Function: 5'-3' exonuclease activity; protein binding; structure-specific DNA binding; double-stranded DNA specific 5'-3' exodeoxyribonuclease activity; DNA binding; single-stranded DNA specific 5'-3' exodeoxyribonuclease activity; 5'-3' exodeoxyribonuclease activity; metal ion binding; exonuclease activity; ribonuclease H activity; flap endonuclease activity Biological Process: humoral immune response mediated by circulating immunoglobulin; mismatch repair; meiotic cell cycle; somatic hypermutation of immunoglobulin genes; isotype switching; DNA repair; DNA catabolic process, exonucleolytic; DNA catabolic process, endonucleolytic; DNA recombination
Research Articles on EXO1	**1.** duplex DNA contact by Exo1 is a general mechanism that controls its activation and that this mechanism is particularly important for digestion of duplex DNA whose nascent ssDNA is bound by replication protein A
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