

Product Name: Exo1 Rabbit Polyclonal Antibody

Catalog #: APRab10656

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,ICC/IF,ELISA
Reactivity Human,Mouse
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000

Molecular Weight 94kDa

Antigen Information

Gene Name EXO1

Alternative Names EXO1; EXOI; HEX1; Exonuclease 1; hExo1; Exonuclease I; hExo1

 Gene ID
 9156.0

 SwissProt ID
 Q9UQ84

The antiserum was produced against synthesized peptide derived from human EXO1. AA **Immunogen**

range:61-110

Background

This gene encodes a protein with 5' to 3' exonuclease activity as well as an RNase H activity. It is similar to the Saccharomyces

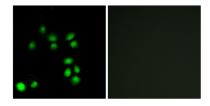


cerevisiae protein Exo1 which interacts with Msh2 and which is involved in mismatch repair and recombination. Alternative splicing of this gene results in three transcript variants encoding two different isoforms. [provided by RefSeg, Jul 2008], cofactor: Binds 2 magnesium ions per subunit. They probably participate in the reaction catalyzed by the enzyme. May bind an additional third magnesium ion after substrate binding, developmental stage: Highly expressed in fetal liver and at lower levels in fetal brain, heart, kidney, spleen and thymus.,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, polymorphism: Most naturally occurring variants in this protein are not associated with familial disposition to hereditary non-polyposis colorectal cancer (HNPCC). Furthermore, germline deletions involving this locus are not associated with clinically manifested colorectal tumors.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the XPG/RAD2 endonuclease family. EXO1 subfamily., subcellular location: Colocalizes with PCNA to discrete nuclear foci in S-phase, subunit: Interacts with the MLH1-PMS2 heterodimer via MLH1. Interacts with MSH3. Interacts with the MSH2-MSH6 heterodimer via MSH2, and this interaction may increase the processivity of the 5'->3' exonuclease activity. Interacts with PCNA, and this interaction may both stimulate the cryptic 3'->5' exonuclease activity and suppress the 5'->3' exonuclease activity. Interacts with WRN, and this interaction stimulates both the 5'->3' exonuclease activity and cleavage of 5'-overhanging flap structures. Interacts with RECQL/RECQ1, and this interaction stimulates cleavage of 5'-overhanging flap structures, tissue specificity: Highly expressed in bone marrow, testis and thymus. Expressed at lower levels in colon, lymph nodes, ovary, placenta, prostate, small intestine, spleen and stomach.,

Research Area

Mismatch repair;

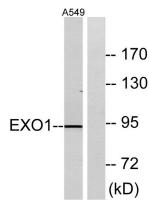
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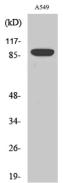
Immunofluorescence analysis of A549 cells, using EXO1 Antibody. The picture on the right is blocked with the synthesized peptide.

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Western blot analysis of lysates from A549 cells, using EXO1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Exo1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .