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Anti-EXO1 Antibody

Catalog # AP51200

Product Information

Application	WB, CHIP, IF/IC
Primary Accession	Q9UQ84
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	94103

Additional Information

Gene ID	9156
Other Names	EXOI; HEX1; Exonuclease 1; hExo1; Exonuclease I; hExoI
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human EXO1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) CHIP~~N/A IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

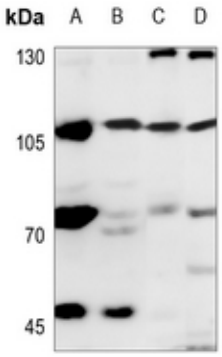
Name	EXO1
Synonyms	EXOI, HEX1
Function	5'->3' double-stranded DNA exonuclease which may also possess a cryptic 3'->5' double-stranded DNA exonuclease activity. Functions in DNA mismatch repair (MMR) to excise mismatch-containing DNA tracts directed by strand breaks located either 5' or 3' to the mismatch. 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

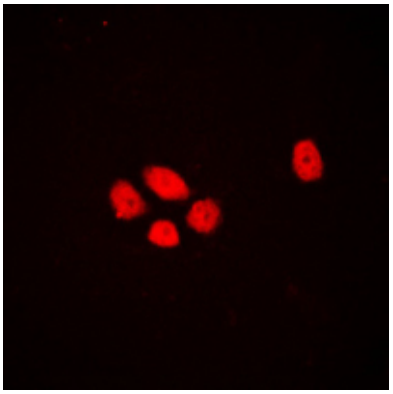
References

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Qiu J.,et al.J. Biol. Chem. 274:17893-17900(1999).
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Images



Western blot analysis of EXO1 expression in H446 (A), A549 (B), mouse spleen (C), rat spleen (D) whole cell lysates. (Predicted band size: 94 kD; Observed band size: 110 kD)



Immunofluorescent analysis of EXO1 staining in A431 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.