Datasheet for ABIN966108

anti-Exonuclease 1 antibody (N-Term)

2 Publications

Go to Product page

Overview

Quantity:	0.1 mg
Target:	Exonuclease 1 (EXO1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Exonuclease 1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human exonuclease 1
Purification:	Purified by antigen-specific affinity chromatography.

Target Details

Target:	Exonuclease 1 (EXO1)
Alternative Name:	EXO1 (EXO1 Products)
Background:	EXO1 (exonuclease 1) is a 5'->3' double-stranded DNA exonuclease which may also possess a cryptic 3'->5' double-stranded DNA exonuclease activity. EXO1 functions in DNA mismatch repair (MMR) to excise mismatchcontaining DNA tracts directed by strand breaks located either 5' or 3' to the mismatch. Also exhibits endonuclease activity against 5' overhanging flap

Target Details

	structures similar to those generated by displacement synthesis when DNA polymerase encounters the 5' end of a downstream Okazaki fragment. EXO1 is required for somatic hypermutation (SHM) and class switch recombination (CSR) of immunoglobulin genes. It is essential for male and female meiosis. EXO1 interacts with the MLH1-PMS2 heterodimer via MLH1. It interacts with MSH3 and with the MSH2-MSH6 heterodimer via MSH2, and this interaction may increase the processivity of the 5'->3' exonuclease activity. EXO1 interacts with PCNA, and this interaction may both stimulate the cryptic 3'->5' exonuclease activity and suppress the 5'->3' exonuclease activity. EXO1 interacts with WRN, and this interaction stimulates both the 5'->3' exonuclease activity and cleavage of 5' overhanging flap structures. It also interacts with RECQL/RECQ1, and this interaction stimulates cleavage of 5' overhanging flap structures.
Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	ELISA, Western blotting: 1µg/ml for 2hrs.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	This antibody is stored in PBS, 50% glycerol
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

Product cited in:	Williams, Werner-Fraczek, Chang, Bailey-Serres: "Regulated phosphorylation of 40S ribosomal protein S6 in root tips of maize." in: **Plant physiology**, Vol. 132, Issue 4, pp. 2086-97, (2003) (PubMed). McBride, Nemer: "The C-terminal domain of c-fos is required for activation of an AP-1 site specific for jun-fos heterodimers." in: **Molecular and cellular biology**, Vol. 18, Issue 9, pp. 5073-

81, (1998) (PubMed).

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