Datasheet for ABIN967162

anti-TDG antibody (C-Term)

4 Publications

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Overview

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

Product Details

Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human TDG (G/T mismatch-specific thymine DNA glycosylase)

Target Details

Target:	TDG
Alternative Name:	TDG (TDG Products)
Background:	In the DNA of higher eukaryotes, hydrolytic deamination of 5-methylcytosine to thymine leads to the formation of G/T mismatches. TDG(G/T mismatch-specific thymine DNA glycosylase) corrects G/T mispairs to G/C pairs. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and a mispaired thymine. In addition to the G/T, TDG can remove thymine also from C/T and T/T mispairs in the order G/T >> C/T > T/T. It

Target Details

	has no detectable activity on apyrimidinic sites and does not catalyze the removal of thymine from A/T pairs or from single-stranded DNA. TDG can also remove uracil and 5-bromouracil from mispairs with guanine. Sumoylation on Lys-330 by either SUMO1 or SUMO2 induces dissociation of the product DNA. TDG belongs to the TDG/mug DNA glycosylase family.
Pathways:	DNA Damage Repair, Chromatin Binding

Application Details

Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

Product cited in:

Cariappa, Tang, Parng, Nebelitskiy, Carroll, Georgopoulos, Pillai: "The follicular versus marginal zone B lymphocyte cell fate decision is regulated by Aiolos, Btk, and CD21." in: **Immunity**, Vol. 14, Issue 5, pp. 603-15, (2001) (PubMed).

Gommerman, Oh, Zhou, Tedder, Maurer, Galli, Carroll: "A role for CD21/CD35 and CD19 in responses to acute septic peritonitis: a potential mechanism for mast cell activation." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 165, Issue 12, pp. 6915-21, (2000) (PubMed).

Oliver, Martin, Kearney: "IgMhighCD21high lymphocytes enriched in the splenic marginal zone generate effector cells more rapidly than the bulk of follicular B cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 12, pp. 7198-207, (1999) (PubMed).

Fischer, Goerg, Shen, Prodeus, Goodnow, Kelsoe, Carroll: "Dependence of germinal center B cells on expression of CD21/CD35 for survival." in: **Science (New York, N.Y.)**, Vol. 280, Issue 5363, pp. 582-5, (1998) (PubMed).

Oliver, Martin, Gartland, Carter, Kearney: "Marginal zone B cells exhibit unique activation, proliferative and immunoglobulin secretory responses." in: **European journal of immunology**, Vol. 27, Issue 9, pp. 2366-74, (1997) (PubMed).