

POLD4 Antibody (monoclonal) (M10)

Mouse monoclonal antibody raised against a full length recombinant POLD4.

Catalog # AT3368a

Product Information

Application	WB, E
Primary Accession	Q9HCU8
Other Accession	BC001334
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2C11
Calculated MW	12433

Additional Information

Gene ID	57804
Other Names	DNA polymerase delta subunit 4, DNA polymerase delta subunit p12, POLD4, POLDS
Target/Specificity	POLD4 (AAH01334, 1 a.a. ~ 34 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	POLD4 Antibody (monoclonal) (M10) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

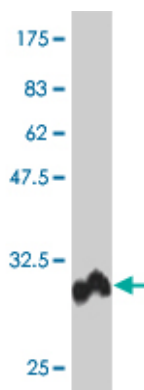
The DNA polymerase delta complex is involved in DNA replication and repair, and it consists of the proliferating cell nuclear antigen (PCNA; MIM 176740), the multisubunit replication factor C (see MIM 102579), and the 4 subunit polymerase complex: POLD1 (MIM 174761), POLD2 (MIM 600815), POLD3 (MIM 611415), and POLD4 (Liu and Warbrick, 2006 [PubMed 16934752]).

References

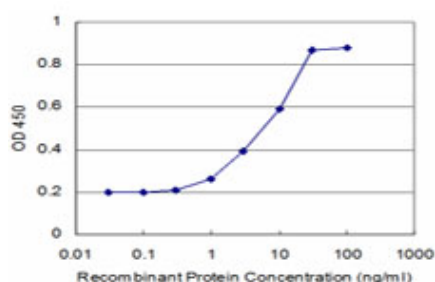
Roles of POLD4, smallest subunit of DNA polymerase delta, in nuclear structures and genomic stability of human cells. Huang QM, et al. Biochem Biophys Res Commun, 2010 Jan 1. PMID 19931513. The Bloom's

syndrome helicase (BLM) interacts physically and functionally with p12, the smallest subunit of human DNA polymerase delta. Selak N, et al. Nucleic Acids Res, 2008 Sep. PMID 18682526. The p66 and p12 subunits of DNA polymerase delta are modified by ubiquitin and ubiquitin-like proteins. Liu G, et al. Biochem Biophys Res Commun, 2006 Oct 13. PMID 16934752. Functional roles of p12, the fourth subunit of human DNA polymerase delta. Li H, et al. J Biol Chem, 2006 May 26. PMID 16510448. Human Werner helicase interacting protein 1 (WRNIP1) functions as a novel modulator for DNA polymerase delta. Tsurimoto T, et al. Genes Cells, 2005 Jan. PMID 15670210.

Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (29.48 KDa) .



Detection limit for recombinant GST tagged POLD4 is approximately 1 ng/ml as a capture antibody.

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