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POLD3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant POLD3.
Catalog # AT3367a

Product Information

Application	WB, IF, E
Primary Accession	Q15054
Other Accession	NM_006591
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3E3
Calculated MW	51400

Additional Information

Gene ID	10714
Other Names	DNA polymerase delta subunit 3, DNA polymerase delta subunit p66, POLD3, KIAA0039
Target/Specificity	POLD3 (NP_006582, 357 a.a. ~ 466 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 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	POLD3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

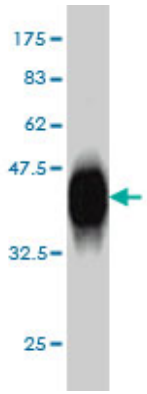
The DNA polymerase delta complex is involved in DNA replication and repair, and it consists of the proliferating cell nuclear antigen (PCNA; MIM 176740), the multisubunit replication factor C (see MIM 102579), and the 4 subunit polymerase complex: POLD1 (MIM 174761), POLD2 (MIM 600815), POLD3, and POLD4 (MIM 611525) (Liu and Warbrick, 2006 [PubMed 16934752]).

References

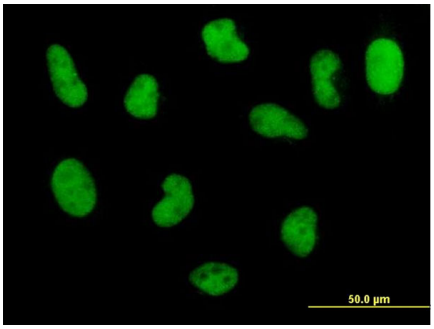
Genetic polymorphisms in 85 DNA repair genes and bladder cancer risk. Michiels S, et al. Carcinogenesis, 2009 May. PMID 19237606.X-ray structure of the complex of regulatory subunits of human DNA polymerase

delta. Baranovskiy AG, et al. Cell Cycle, 2008 Oct. PMID 18818516.Crystallization and preliminary crystallographic analysis of the complex of the second and third regulatory subunits of human Pol delta. Baranovskiy AG, et al. Acta Crystallogr Sect F Struct Biol Cryst Commun, 2008 Sep 1. PMID 18765914.Phosphorylation of the C subunit (p66) of human DNA polymerase delta. Lemmens L, et al. Biochem Biophys Res Commun, 2008 Mar 7. PMID 18157942.Dynamics of human replication factors in the elongation phase of DNA replication. Masuda Y, et al. Nucleic Acids Res, 2007. PMID 17932049.

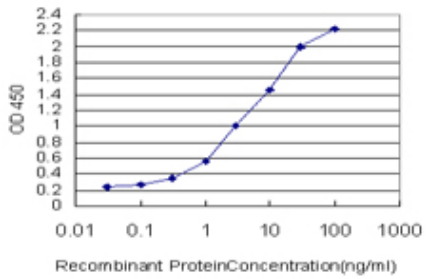
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



Immunofluorescence of monoclonal antibody to POLD3 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged POLD3 is approximately 0.03ng/ml as a capture antibody.

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