

POLA Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant POLA.****Catalog # AT3365a****Specification**

POLA Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	P09884
Other Accession	NM_016937
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	165913

POLA Antibody (monoclonal) (M01) - Additional Information**Gene ID** 5422**Other Names**

DNA polymerase alpha catalytic subunit, DNA polymerase alpha catalytic subunit p180, POLA1, POLA

Target/Specificity

POLA (NP_058633, 1363 a.a. ~ 1462 a.a) partial 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

POLA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

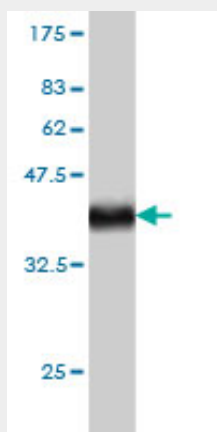
POLA Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

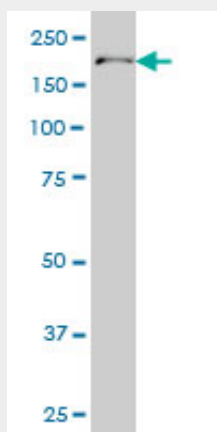
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

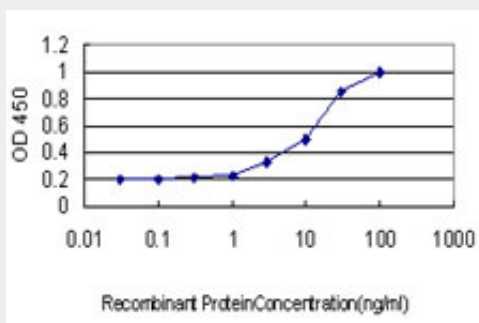
POLA Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



POLA monoclonal antibody (M01), clone 3C11 Western Blot analysis of POLA expression in HeLa S3 NE (Cat # AT3365a)



Detection limit for recombinant GST tagged POLA is approximately 0.3ng/ml as a capture antibody.

POLA Antibody (monoclonal) (M01) - Background

This gene encodes the catalytic subunit of DNA polymerase, which together with a regulatory and two primase subunits, forms the DNA polymerase alpha complex. The catalytic subunit plays an essential role in the initiation of DNA replication.

POLA Antibody (monoclonal) (M01) - References

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732. Physical interactions between Mcm10, DNA, and DNA polymerase alpha. Warren EM, et al. J Biol Chem, 2009 Sep 4. PMID 19608746. Replication stress activates DNA polymerase alpha-associated Chk1. Taricani L, et al. Cell Cycle, 2009 Feb 1. PMID 19177015. Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348. Mcm10 and And-1/CTF4 recruit DNA polymerase alpha to chromatin for initiation of DNA replication. Zhu W, et al. Genes Dev, 2007 Sep 15. PMID 17761813.