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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

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

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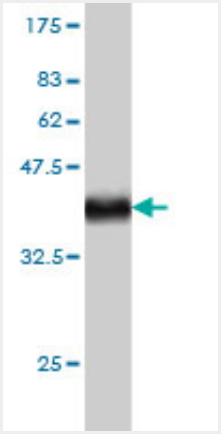
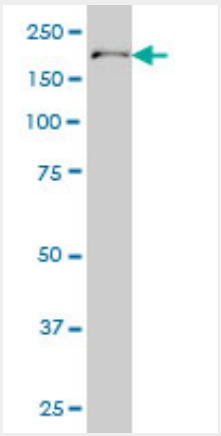
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

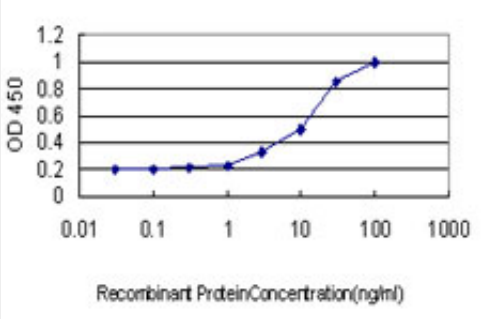
POLA Antibody (monoclonal) (M01) - Images



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.