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CENPA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CENPA.
Catalog # AT1493a

Specification

CENPA Antibody (monoclonal) (M01) - Product Information

Application	**E**
Primary Accession	P49450
Other Accession	BC000881
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**15991**

CENPA Antibody (monoclonal) (M01) - Additional Information

Gene ID 1058

Other Names
Histone H3-like centromeric protein A, Centromere autoantigen A, Centromere protein A, CENP-A, CENPA

Target/Specificity
CENPA (AAH00881, 1 a.a. ~ 114 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

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

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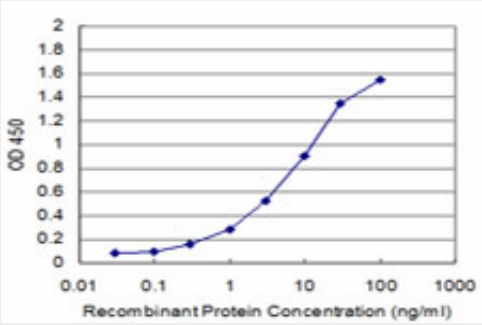
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CENPA Antibody (monoclonal) (M01) - Images



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

CENPA Antibody (monoclonal) (M01) - Background

Centromeres are the differentiated chromosomal domains that specify the mitotic behavior of chromosomes. CENPA encodes a centromere protein which contains a histone H3 related histone fold domain that is required for targeting to the centromere. CENPA is proposed to be a component of a modified nucleosome or nucleosome-like structure in which it replaces 1 or both copies of conventional histone H3 in the (H3-H4)2 tetrameric core of the nucleosome particle. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

CENPA Antibody (monoclonal) (M01) - References

Dual recognition of CENP-A nucleosomes is required for centromere assembly. Carroll CW, et al. J Cell Biol, 2010 Jun 28. PMID 20566683.Molecular and evolutionary characteristics of the fraction of human alpha satellite DNA associated with CENP-A at the centromeres of chromosomes 1, 5, 19, and 21. Pironon N, et al. BMC Genomics, 2010 Mar 23. PMID 20331851.Building centromeres: home sweet home or a nomadic existence? Buscaino A, et al. Curr Opin Genet Dev, 2010 Apr. PMID 20206496.CENP-A reduction induces a p53-dependent cellular senescence response to protect cells from executing defective mitoses. Maehara K, et al. Mol Cell Biol, 2010 May. PMID 20160010.HJURP binds CENP-A via a highly conserved N-terminal domain and mediates its deposition at centromeres. Shuaib M, et al. Proc Natl Acad Sci U S A, 2010 Jan 26. PMID 20080577.