# CENP-A Monoclonal Antibody

## ORDERING INFORMATION

**Catalog No.: 12597** (clone 5A7-2E11)
**Format:** 100ug in PBS (1mg/ml), pH 7.4, 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

## BACKGROUND

Replicated chromosomes include two kinetochores that control chromosome segregation during mitosis. Centromere Protein-A (CENP-A), a histone H3-like protein, contains a C-terminal H3-like domain which is required for centromere localization of CENP-A. It is essential for kinetochore targeting of CENP-C. In the presence of DNA, CENP-A forms an octameric complex with histones H2A, H2B, and H4. CENP-A specifically localizes to active centromeres and is a component of specialized centromeric nucleosomes on which kinetochores are assembled. CENP-A is essential for nucleosomal packaging of centromeric DNA at interphase and functions as a centromere formation marker on chromosomes.

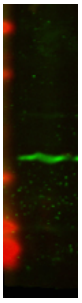
## SPECIFICATION SUMMARY

**Antigen:** Synthetic peptide corresponding to a sequence within human CENP-A.
**Accession no.**: P49450, NP_001035891.1
**Host Species:** Mouse
**Antibody Class:** IgG1
**Specificity:** This antibody recognizes human CENP-A. Reactivity with other species has not been investigated.

## APPLICATIONS

*Immunoblotting:* use at 1ug/ml. A band of ~18kDa is detected.

Detection of CENP-A in lysate of U2OS cells



*ELISA:* use at 1-10ug/ml with CENP-A on the solid phase.
*Positive control:* U2OS cell lysate
These are recommended concentrations; enduser should determine optimal concentrations for their applications.

## DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

## STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20$^{o}$C. Avoid repeated freeze-thaw cycles.
*For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.*

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