

CENP-A Antibody

CENP-A Antibody, Clone 5A7-2E11 Catalog # ASM10149

Specification

CENP-A Antibody - Product Information

Application ICC/IF, WB Primary Accession P49450

Other Accession NP 001035891.1

Host Mouse
Isotype IgG1
Reactivity Human
Clonality Monoclonal

Description

Mouse Anti-Human CENP-A Monoclonal IgG1

Target/Specificity

Detects ~18kDa. Recognizes Human

CENP-A.

Other Names

CENP A Antibody, cenpa Antibody, Centromere auto antigen A Antibody, Histone H3 like centromeric protein A Antibody

Immunogen

Synthetic peptide corresponding to a portion of human CENP-A

Purification

Protein G Purified

Storage -20°C

Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

Shipping Blue Ice or 4°C

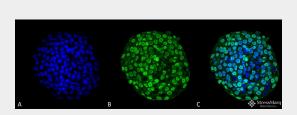
Temperature

Certificate of Analysis

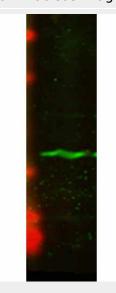
 $1~\mu g/ml$ of SMC-202 was sufficient for detection of CENPA in 20 μg of U2OS cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

Nucleus | Chromosome | Centromere | Kinetochore

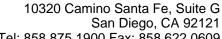


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-CENP-A Monoclonal Antibody, Clone 5A7-2E11 (ASM10149). Tissue: Colon cancer cell line (HT-29). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-CENP-A Monoclonal Antibody (ASM10149) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: DAPI (blue) nuclear stain at 1:5000 for 5 min RT. Localization: Nucleus. Magnification: 60X.



Western Blot analysis of Human U2OS cell lysate showing detection of CENP-A protein using Mouse Anti-CENP-A Monoclonal Antibody, Clone 5A7-2E11 (ASM10149). Primary Antibody: Mouse Anti-CENP-A Monoclonal Antibody (ASM10149) at 1:1000.

CENP-A Antibody - Background





Tel: 858.875.1900 Fax: 858.622.0609

CENP-A Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

A replicated chromosome includes two kinetochores that control chromosome segregation during mitosis. The Centromere Protein-A, CENP-A, is a Histone H3-like protein that contains a C-terminal H3-like domain, which is required for centromere localization of CENP-A, and an antigenic N-terminal domain. CENP-A, originally isolated from HeLa cells, is essential for kinetochore targeting of CENP-C. In the presence of DNA CENP-A forms an octa-meric complex with histones H4. H2A. H2B. 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 the chromosome.

CENP-A Antibody - References

- 1. Rieder C.L., et al. (1998) Trends Cell Biol. 8: 310-318.
- 2. Choo K.H. (2000) Trends Cell Biol. 10: 182-188.
- 3. Muro Y., et al. (2000) Clin. Exp. Immunol. 120: 218-223.
- 4. Howman E.V., et al. (2000) Proc. Natl. Acad. Sci. USA 97: 1148-1153.