



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Chromosome Associated Protein-E. Mouse Monoclonal Antibody

CAP-E; Structural maintenance of chromosomes protein 2; SMC-2

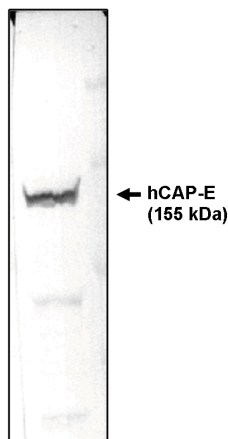
BACKGROUND

CAP-E and CAP-C (Chromosome Associated Protein-E & C) are also SMC (Structural Maintenance of Chromosome) family members that form a heterodimeric complex required for mitotic chromosome condensation to achieve proper segregation of genetic information during subsequent cell division. hCAP-C/hCAP-E is a component of a multiprotein complex called condensin that interacts with phosphorylation of Histone H3 resulting in the mitotic chromosome condensation. The distribution patterns of the two heterodimeric complexes in interphase nucleus indicate independent behaviour of the two complexes during cell cycle. These results suggest that the two distinct complexes are involved in different aspects of mitotic chromosome organization in human cells.

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant protein corresponding to amino acids 523-768 of human CAP-E and mouse myeloma cells.

Western blotting using
CAP-E antibody on HeLa cell lysate.



ORDERING INFORMATION

CATALOG NUMBER

X1485M

SIZE

100 µg

FORM

Unconjugated

HOST/CLONE

Mouse Clone E1M

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Human O95347

POSITIVE CONTROL/TISSUE EXPRESSION

HeLa cells

COMMENTS

This antibody can be used for Western blotting (1-5 μ g/ml). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Protein A/G Chromatography

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Hirano, T.R., et al. 'Condensins, chromosome condensation protein complexes containing XCAP-C, XCAP-E and a Xenopus homolog of the Drosophila Barren protein.' *Cell*, 1997, 89, 511-521.
2. Schmiesing, J.A., et al. 'A human condensin complex containing hCAP-C, hCAP-E and CNAP1, a homolog of Xenopus XCAP-D2, colocalizes with phosphorylated histone H3 during the early stage of mitotic chromosome condensation.' *Mol. Cell Biol.* 2000, 20, 6996-7006

PRODUCT SPECIFIC REFERENCES