

**CAPE Antibody (C-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2276a****Specification**

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**CAPE Antibody (C-Term) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O95347</a>
Other Accession	<a href="#">NP_006435.2</a> , <a href="#">10592</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	135656

**CAPE Antibody (C-Term) - Additional Information****Gene ID** 10592**Other Names**

Structural maintenance of chromosomes protein 2, SMC protein 2, SMC-2, Chromosome-associated protein E, hCAP-E, XCAP-E homolog, SMC2, CAPE, SMC2L1

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CAPE Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CAPE Antibody (C-Term) - Protein Information****Name** SMC2**Synonyms** CAPE, SMC2L1**Function**

Central component of the condensin complex, a complex required for conversion of interphase

chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases.

#### **Cellular Location**

Nucleus. Cytoplasm. Chromosome. Note=In interphase cells, the majority of the condensin complex is found in the cytoplasm, while a minority of the complex is associated with chromatin. A subpopulation of the complex however remains associated with chromosome foci in interphase cells. During mitosis, most of the condensin complex is associated with the chromatin. At the onset of prophase, the regulatory subunits of the complex are phosphorylated by CDC2, leading to condensin's association with chromosome arms and to chromosome condensation. Dissociation from chromosomes is observed in late telophase

#### **CAPE Antibody (C-Term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **CAPE Antibody (C-Term) - Images**



AF2276a (0.2 µg/ml) staining of HeLa lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **CAPE Antibody (C-Term) - Background**

Reported variants NP\_006435.2, NP\_001036015.1 and NP\_001036016.1 represent identical protein

#### **CAPE Antibody (C-Term) - References**

Identification of two distinct human SMC protein complexes involved in mitotic chromosome dynamics. Schmiesing JA, Ball AR Jr, Gregson HC, Alderton JM, Zhou S, Yokomori K. Proc Natl Acad Sci U S A 1998 Oct 27;95(22):12906-11 PMID: 9789013