


### Anti-SMC2 antibody ab10412

★★★★★ [1 Abreviews](#) [22 References](#) [2 图像](#)

#### 概述

产品名称	Anti-SMC2抗体
描述	兔多克隆抗体to SMC2
宿主	Rabbit
经测试应用	适用于: WB, IP
种属反应性	与反应: Human 预测可用于: Chimpanzee, Rhesus monkey, Gorilla, Orangutan 
免疫原	Synthetic peptide. The epitope maps to a region between residue 1150 and the C-terminus (residue 1197) of human Structural Maintenance of Chromosomes 2 using the numbering given in entry NP_006435.1 (GeneID 10592).
阳性对照	IP: HeLa cell lysates; WB: HeLa and HEK293 cell lysates
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
纯度	Immunogen affinity purified
纯化说明	Antibodies were affinity purified using the peptide immobilized on solid support.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab10412于以下的经测试应用

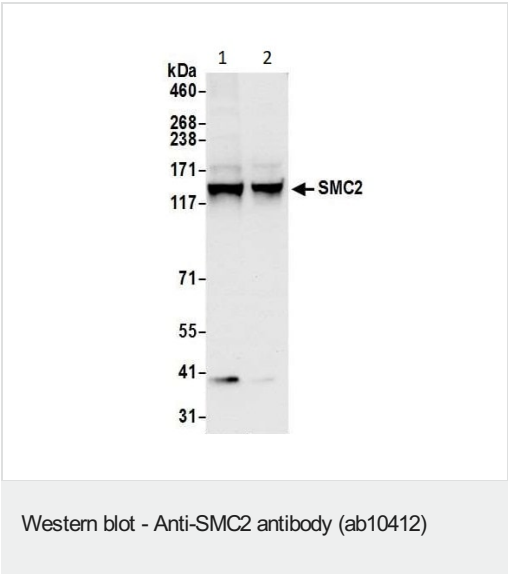
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 0.1 µg/ml. Detects a band of approximately 140 kDa (predicted molecular weight: 137 kDa).
IP		Use a concentration of 1 µg/ml.

靶标

功能	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.
序列相似性	Belongs to the SMC family. SMC2 subfamily.
结构域	The hinge domain, which separates the large intramolecular coiled coil regions, allows the heterodimerization with SMC4, forming a V-shaped heterodimer.
细胞定位	Nucleus. Cytoplasm. Chromosome. 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.

图片



**All lanes :** Anti-SMC2 antibody (ab10412) at 0.1 µg/ml

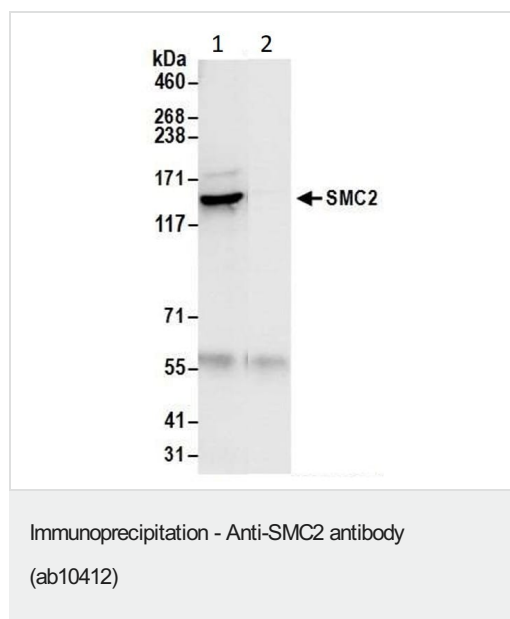
**Lane 1 :** HeLa cell lysate

**Lane 2 :** HEK293 cell lysate

Lysates/proteins at 50 µg per lane.

**Predicted band size:** 137 kDa

**Exposure time:** 3 seconds



Immunoprecipitation of Human Aurora A with ab10412 at 1 µg/mL.

Lane 1: ab10412 + Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer.

Lane 2: IgG control + Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer.

Detection: Chemiluminescence

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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