

Anti-SMC3 antibody - C-terminal ab155587

[1 References](#) [5 图像](#)

概述

产品名称	Anti-SMC3抗体- C-terminal
描述	兔多克隆抗体to SMC3 - C-terminal
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, ICC/IF
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Chicken, Xenopus laevis, Zebrafish 
免疫原	Recombinant fragment, corresponding to a region within C terminal amino acids 909-1199 of Human SMC3 (UniProt Q9UQE7).
阳性对照	HepG2, NIH3T3, JC, BCL-1 and PC12 whole cell lysates; HeLa cells; Human Cal27 xenograft tissue.
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&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab155587 于以下的经测试应用

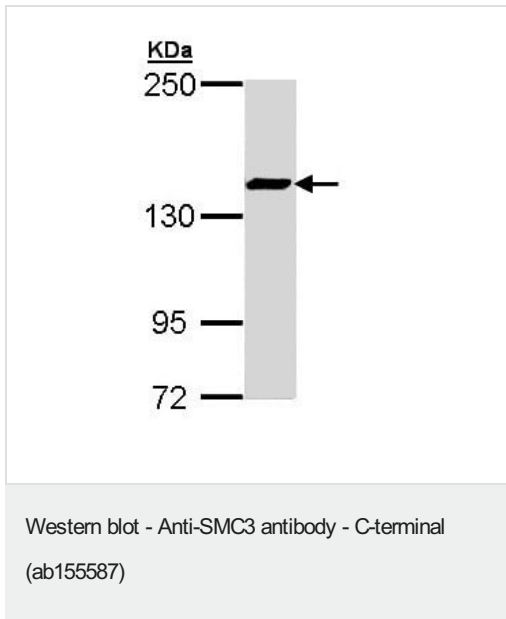
“应用说明”部分下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/500 - 1/3000. Predicted molecular weight: 141 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol using 10mM Citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0).
ICC/IF		1/100 - 1/1000.

靶标

功能	Central component of cohesin, a complex required for chromosome cohesion during the cell cycle. The cohesin complex may form a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. Cohesion is coupled to DNA replication and is involved in DNA repair. The cohesin complex plays also an important role in spindle pole assembly during mitosis and in chromosomes movement.
疾病相关	Defects in SMC3 are the cause of Cornelia de Lange syndrome type 3 (CDLS3) [MIM:610759]. CDLS is a dominantly inherited multisystem developmental disorder characterized by growth and cognitive retardation, abnormalities of the upper limbs, gastroesophageal dysfunction, cardiac, ophthalmologic and genitourinary anomalies, hirsutism, and characteristic facial features. CDSL3 is a mild form with absence of major structural anomalies typically associated with CDLS. The phenotype in some instances approaches that of apparently non-syndromic mental retardation.
序列相似性	Belongs to the SMC family. SMC3 subfamily.
结构域	The flexible hinge domain, which separates the large intramolecular coiled coil regions, allows the heterotypic interaction with the corresponding domain of SMC1A or SMC1B, forming a V-shaped heterodimer. The two heads of the heterodimer are then connected by different ends of the cleavable RAD21 protein, forming a ring structure.
翻译后修饰	Phosphorylated upon DNA damage, probably by ATM or ATR. Acetylation at Lys-105 and Lys-106 by ESCO1 is important for genome stability and S phase sister chromatid cohesion. Regulated by DSCC1, it is required for processive DNA synthesis, coupling sister chromatid cohesion establishment during S phase to DNA replication.
细胞定位	Nucleus. Chromosome. Chromosome > centromere. Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK, except at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of the cohesin complex is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation.

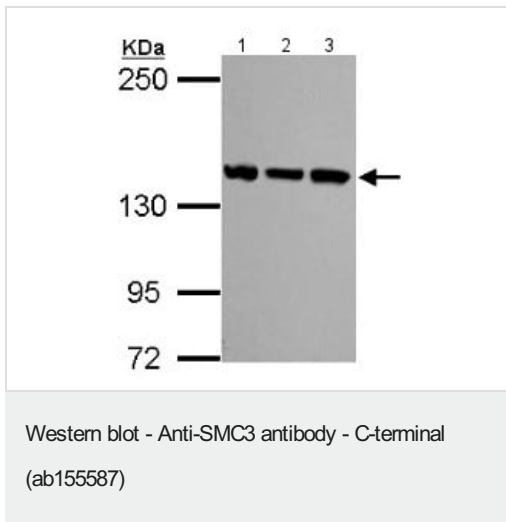
图片



Anti-SMC3 antibody - C-terminal (ab155587) at 1/1000 dilution + HepG2 whole cell lysate at 30 μ g

Predicted band size: 141 kDa

5% SDS PAGE



All lanes : Anti-SMC3 antibody - C-terminal (ab155587) at 1/1000 dilution

Lane 1 : NIH3T3 whole cell lysate

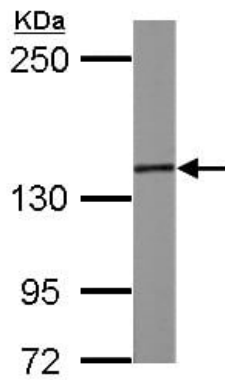
Lane 2 : JC whole cell lysate

Lane 3 : BCL-1 whole cell lysate

Lysates/proteins at 30 μ g per lane.

Predicted band size: 141 kDa

5% SDS PAGE

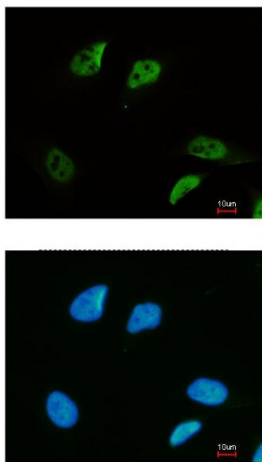


Western blot - Anti-SMC3 antibody - C-terminal (ab155587)

Anti-SMC3 antibody - C-terminal (ab155587) at 1/2000 dilution + PC12 whole cell lysate at 30 μ g

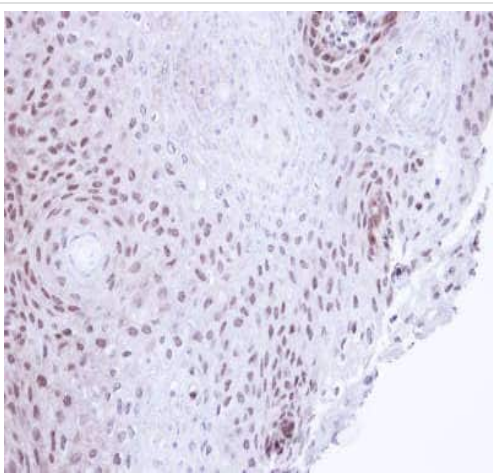
Predicted band size: 141 kDa

5% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-SMC3 antibody - C-terminal (ab155587)

Immunofluorescent analysis of paraformaldehyde-fixed HeLa cells labeling SMC3 with ab155587 at 1/200 dilution. Lower panel merged with DNA probe.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMC3 antibody - C-terminal (ab155587)

Immunohistochemical analysis of paraffin-embedded Cal27 (human) xenograft tissue labeling SMC3 with ab155587 at 1/100 dilution.

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