

Product datasheet

Anti-SMC1L2 antibody ab96206

2 Images

Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-SMC1L2 antibody  |
| <b>Description</b>         | Rabbit polyclonal to SMC1L2   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB, IHC-P  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Recombinant fragment, corresponding to a region within amino acids 154-403 of Human SMC1L2. |
| <b>Positive control</b>    | HeLa cells lysate, SAS xenograft  |

Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.              |
| <b>Storage buffer</b>       | Preservative: 0.01% Thimerosal (merthiolate)<br>Constituents: 10% Glycerol, 0.1M Tris, 0.1M Glycine, pH 7.0 |
| <b>Purity</b>               | Immunogen affinity purified   |
| <b>Clonality</b>            | Polyclonal  |
| <b>Isotype</b>              | IgG   |

Applications

Our [Abpromise guarantee](#) covers the use of **ab96206** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| WB          |           | 1/500 - 1/3000. Predicted molecular weight: 144 kDa. |
| IHC-P       |           | 1/100 - 1/500.                                       |

Target

**Function** Meiosis-specific component of cohesin complex. Required for the maintenance of meiotic

cohesion, but not, or only to a minor extent, for its establishment. Contributes to axial element (AE) formation and the organization of chromatin loops along the AE. Plays a key role in synapsis, recombination and chromosome movements. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms 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. The meiosis-specific cohesin complex probably replaces mitosis specific cohesin complex when it dissociates from chromatin during prophase I.

**Sequence similarities**

Belongs to the SMC family, SMC1 subfamily.

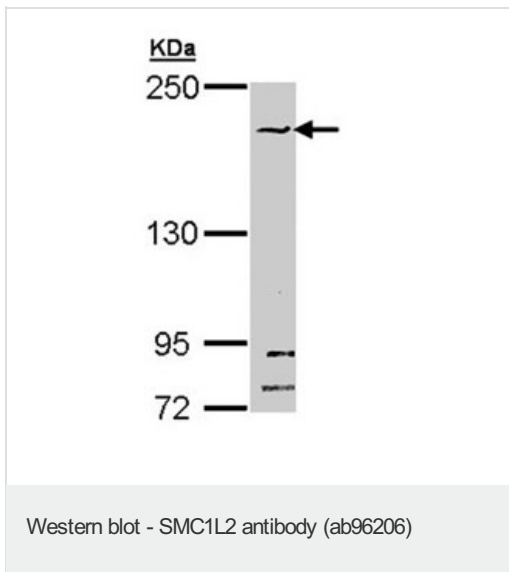
**Domain**

The flexible hinge domain, which separates the large intramolecular coiled coil regions, allows the heterotypic interaction with the corresponding domain of SMC3, forming a V-shaped heterodimer. The two heads of the heterodimer are then connected by different ends of the cleavable RAD21 or REC8 protein, forming a ring structure.

**Cellular localization**

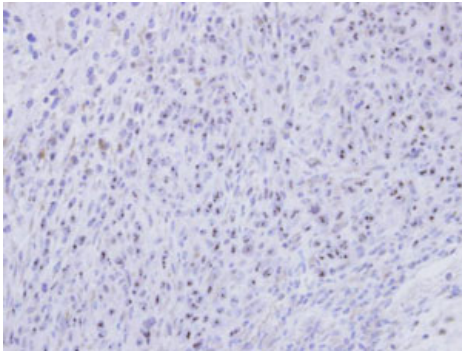
Nucleus. Chromosome. Chromosome > centromere. Associates with chromatin. In prophase I stage of meiosis, localizes along the AE of synaptonemal complexes. In late-pachytene-diplotene, the bulk of protein dissociates from the chromosome arms probably because of phosphorylation by PLK, except at centromeres, where cohesin complexes remain. Remains chromatin associated at the centromeres up to metaphase II. At anaphase II, dissociates from centromeres, allowing chromosomes segregation.

**Anti-SMC1L2 antibody images**



Anti-SMC1L2 antibody (ab96206) at 1/1000 dilution + HeLa whole cell lysate at 30 µg

**Predicted band size : 144 kDa**



Immunohistochemical analysis of paraffin-embedded SAS xenograft, using ab96206 at 1:500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - SMC1L2 antibody (ab96206)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors