abcam

Product datasheet

Anti-SMC3 antibody [EPR7984] - BSA and Azide free ab225553

יעלאעבע RabMAb

1 References 画像数3

製品の概要

免疫原

製品名 Anti-SMC3 antibody [EPR7984] - BSA and Azide free

製品の詳細 Rabbit monoclonal [EPR7984] to SMC3 - BSA and Azide free

由来種 Rabbit

アプリケーション 適用あり: WB, IHC-P

適用なし: №

交差種: Human 種交差性

交差が予測される動物種: Mouse, Rat 🔷

Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

(Peptide available as ab209493)

ポジティブ・コントロール Human colon tissue. HeLa, A431, K562 and HepG2 cell lysates.

特記事項 ab225553 is the carrier-free version of ab128919.

> Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cellbased assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information see here.

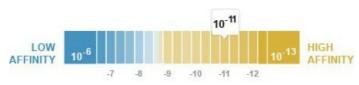
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Store at +4°C. Do Not Freeze.

解離定数(K_D値) K_D = 3.84 x 10 ⁻¹¹ M



Learn more about K_D

バッファー pH: 7.20

Constituent: PBS

キャリア・フリー はい

精製度 Protein A purified

ポリ/モノ モノクローナル

クローン名 EPR7984

アイソタイプ IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab225553の使用に適用されますアプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Predicted molecular weight: 141 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

追加情報 Is unsuitable for IP.

ターゲット情報

機能 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.

関連疾患 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.

Belongs to the SMC family. SMC3 subfamily.

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.

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.

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.

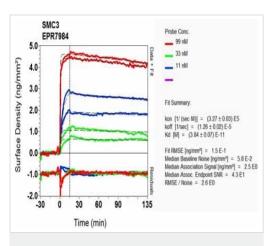
画像

配列類似性

翻訳後修飾

細胞内局在

ドメイン



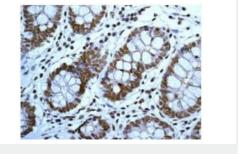
OI-RD Scanning - Anti-SMC3 antibody [EPR7984] -BSA and Azide free (ab225553)

Equilibrium disassociation constant (KD)

Learn more about K_D

Click here to learn more about K_D

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab128919).



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-SMC3 antibody [EPR7984] - BSA and Azide free (ab225553)

This IHC data was generated using the same anti-SMC3 antibody clone [EPR7984] in a different buffer formulation (cat# ab128919).

ab128919 at 1/100 dilution staining SMC3 in paraffin-embedded Human colon tissue by immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



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