# abcam

# Product datasheet

# Anti-Aurora B antibody [mAbcam 3609] ab3609

★★★★★ 5 Abreviews 27 References 画像数 2

#### 製品の概要

製品名 Anti-Aurora B antibody [mAbcam 3609]

製品の詳細 Mouse monoclonal [mAbcam 3609] to Aurora B

由来種 Mouse

特異性 Based on the immunogen sequence, we do not expect the antibody to cross-react with AURKA or

AURKC. No cross-reactivity testing has been performed.

アプリケーション 適用あり: WB, IHC-P

適用なし: ICC/IF

種交差性 交差種: Human

交差が予測される動物種: Mouse, Rat 🔷

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

ポジティブ・コントロール Hela whole cell lysate

特記事項 This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or

conjugation for your experiments, please contact orders@abcam.com.

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.

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

#### 製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

パッファー Preservative: 0.05% Sodium azide

Constituent: PBS

精製度 Protein G purified

**ポリ/モノ** モノクローナル

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クローン名 mAbcam 3609

アイソタイプ lgG1 軽鎖の種類 kappa

#### アプリケーション

**The Abpromise guarantee** <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab3609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	****(1)	Use a concentration of 1 µg/ml. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa). Block with 1% BSA for 1 hour.
IHC-P		Use at an assay dependent concentration.

追加情報 Is unsuitable for ICC/IF.

### ターゲット情報

機能 May be directly involved in regulating the cleavage of polar spindle microtubules and is a key

regulator for the onset of cytokinesis during mitosis. Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation

and is required for chromatin-induced microtubule stabilization and spindle assembly. Phosphorylates 'Ser-10' and 'Ser-28' of histone H3 during mitosis. Required for kinetochore

localization of BUB1 and SGOL1. Interacts with INCENP.

組織特異性 High level expression seen in the thymus. It is also expressed in the spleen, lung, testis, colon,

placenta and fetal liver. Expressed during S and G2/M phase and expression is up-regulated in

cancer cells during M phase.

**関連疾患** Note=Disruptive regulation of expression is a possibile mechanism of the perturbation of

chromosomal integrity in cancer cells through its dominant-negative effect on cytokinesis.

**配列類似性** Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily.

Contains 1 protein kinase domain.

翻訳後修飾 Ubiquitinated by different BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complexes. Ubiquitinated

by the BCR(KLHL9-KLHL13) E3 ubiquitin ligase complex, ubiquitination leads to removal from mitotic chromosomes and is required for cytokinesis. During anaphase, the BCR(KLHL21) E3 ubiquitin ligase complex recruits the CPC complex from chromosomes to the spindle midzone and mediates the ubiquitination of AURKB. Ubiquitination of AURKB by BCR(KLHL21) E3

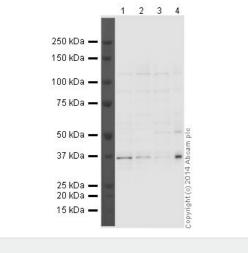
ubiquitin ligase complex may not lead to its degradation by the proteasome.

細胞内局在 Nucleus. Chromosome > centromere. Cytoplasm > cytoskeleton > spindle.

Localizes on chromosome arms and inner centromeres from prophase through metaphase and

then transferring to the spindle midzone and midbody from anaphase through cytokinesis.

Colocalized with gamma tubulin in the mid-body.



Western blot - Anti-Aurora B antibody [mAbcam 3609] (ab3609)

All lanes : Anti-Aurora B antibody [mAbcam 3609] (ab3609) at 1

µg/ml

Lane 1 : Hek293 Whole Cell Lysate
Lane 2 : Jurkat Whole Cell Lysate
Lane 3 : HeLa Whole Cell Lysate

Lane 4: HeLa Whole Cell Lysate- Nocodozole Stimulated

Lysates/proteins at 20 µg per lane.

# Secondary

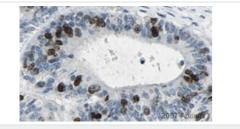
**All lanes :** Goat polyclonal to Mouse IgG - H&L - Pre-Absorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 39 kDa **Observed band size:** 37 kDa

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Aurora B antibody
[mAbcam 3609] (ab3609)

Image courtesy of Human Protein Atlas

Image courtesy of **Human Protein Atlas** 

Paraffin embedded human liver tumor tissue was incubated with ab3609 (1/35 dilution) for 30 mins at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6. ab3609 was tested in a tissue microarray (TMA) containing a wide range of normal and cancer tissues as well as a cell microarray consisting of a range of commonly used, well characterised human

cell lines. Further images can be found at www.proteinatlas.org

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