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Product datasheet

Anti-PLK1 antibody [2A3] ab115763

1 References　画像数 1

製品の概要

製品名	Anti-PLK1 antibody [2A3]
製品の詳細	Mouse monoclonal [2A3] to PLK1
由来種	Mouse
アプリケーション	**適用あり:** WB, IHC-P
種交差性	**交差種:** Human
免疫原	Synthetic modified peptide (pThr210) of Human PLK1 conjugated to KLH.
ポジティブ・コントロール	Human colon tissue

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). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.09% Sodium azide Constituent: 99% PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	2A3
アイソタイプ	IgG1

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ab115763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。

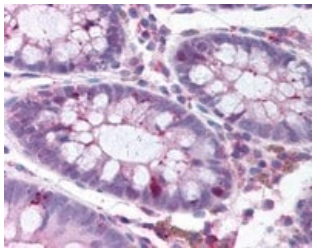
アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Predicted molecular weight: 68 kDa.

アプリケーション	Abreviews	特記事項
IHC-P		Use a concentration of 15 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

機能	Serine/threonine-protein kinase that performs several important functions throughout M phase of the cell cycle, including the regulation of centrosome maturation and spindle assembly, the removal of cohesins from chromosome arms, the inactivation of APC/C inhibitors, and the regulation of mitotic exit and cytokinesis. Required for recovery after DNA damage checkpoint and entry into mitosis. Required for kinetochore localization of BUB1B. Phosphorylates SGOL1. Required for spindle pole localization of isoform 3 of SGOL1 and plays a role in regulating its centriole cohesion function. Phosphorylates BORA, and thereby promotes the degradation of BORA. Contributes to the regulation of AURKA function. Regulates TP53 stability through phosphorylation of TOPORS.
組織特異性	Placenta and colon.
配列類似性	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CDC5/Polo subfamily. Contains 2 POLO box domains. Contains 1 protein kinase domain.
発生段階	Accumulates to a maximum during the G2 and M phases, declines to a nearly undetectable level following mitosis and throughout G1 phase, and then begins to accumulate again during S phase.
翻訳後修飾	Catalytic activity is enhanced by phosphorylation of Thr-210. Phosphorylation at Thr-210 is first detected on centrosomes in the G2 phase of the cell cycle, peaks in prometaphase and gradually disappears from centrosomes during anaphase. Autophosphorylation and phosphorylation of Ser-137 may not be significant for the activation of PLK1 during mitosis, but may enhance catalytic activity during recovery after DNA damage checkpoint. Ubiquitinated by the anaphase promoting complex/cyclosome (APC/C) in anaphase and following DNA damage, leading to its degradation by the proteasome. Ubiquitination is mediated via its interaction with FZR1/CDH1. Ubiquitination and subsequent degradation prevents entry into mitosis and is essential to maintain an efficient G2 DNA damage checkpoint.
細胞内局在	Nucleus. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > centrosome. During early stages of mitosis, the phosphorylated form is detected on centrosomes and kinetochores. Localizes to the outer kinetochore. Presence of SGOL1 and interaction with the phosphorylated form of BUB1 is required for the kinetochore localization.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLK1 antibody [2A3] (ab115763)

ab115763, at 15 ug/ml, staining PKL1 in formalin fixed paraffin embedded Human colon by Immunohistochemistry. Folowing by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.

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