abcam

Product datasheet

Anti-MELK antibody [EPR3981] ab108529

KO 評価済 リコンビナント RabMAb

14 References 画像数 4

製品の概要

製品名	Anti-MELK antibody [EPR3981]
製品の詳細	Rabbit monoclonal [EPR3981] to MELK
由来種	Rabbit
アプリケーション	**適用あり:** WB **適用なし:** Flow Cyt,ICC/IF,IHC-P or IP
種交差性	**交差種:** Human
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	WB: HCT116, K562, 293T, and Jurkat whole cell lysate (**ab7899**).
特記事項	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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR3981
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ab108529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。

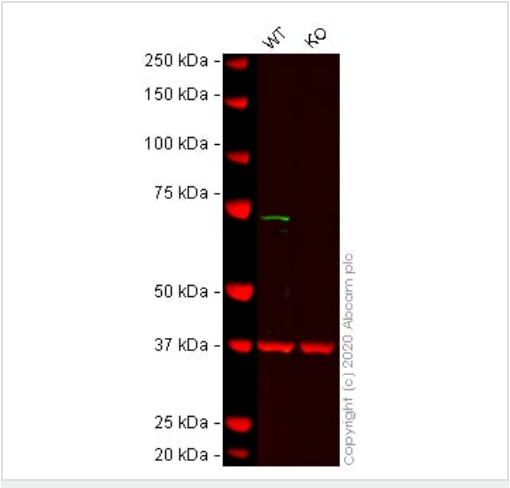
アプリケーション	Abreviews	特記事項
WB		1/1000 - 1/10000. Predicted molecular weight: 75 kDa.

追加情報 Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

ターゲット情報

機能	Phosphorylates ZNF622 and may contribute to its redirection to the nucleus. May be involved in the inhibition of spliceosome assembly during mitosis.
組織特異性	Expressed in placenta, kidney, thymus, testis, ovary and intestine.
配列類似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily. Contains 1 KA1 (kinase-associated) domain. Contains 1 protein kinase domain.
翻訳後修飾	Autophosphorylated. Thr-478 phosphorylation during mitosis promotes interaction with PPP1R8.
細胞内局在	Cytoplasm.

画像



Western blot - Anti-MELK antibody [EPR3981] (ab108529)

All lanes : Anti-MELK antibody [EPR3981] (ab108529) at 1/1000 dilution

Lane 1 : HCT116 cell lysate
Lane 2 : MELK knockout HCT116 cell lysate

Lysates/proteins at 20 µg per lane.

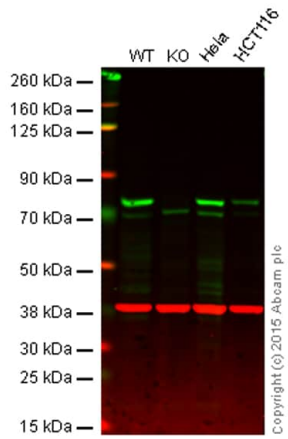
Performed under reducing conditions.

Predicted band size: 75 kDa
Observed band size: 75 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab108529

observed at 75 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab108529 was shown to react with MELK in wild-type HCT116 cells in western blot with loss of signal observed in MELK knockout cell line **ab266896** (MELK knockout cell lysate **ab257537**). Wild-type and MELK knockout HCT116 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab108529 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

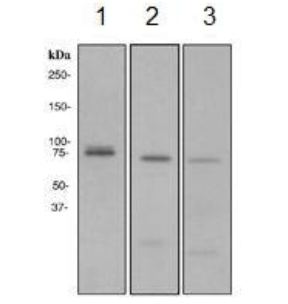


Western blot - Anti-MELK antibody [EPR3981] (ab108529)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: MELK knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: HCT116 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab108529 observed at 75 kDa. Red - loading control, **ab8226**, observed at 42 kDa.

ab108529 was shown to recognize MELK when MELK knockout samples were used, along with additional cross-reactive bands. Wild-type and MELK knockout samples were subjected to SDS-PAGE. ab108529 and **ab8226** (loading control to beta Actin) were both diluted 1/1000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-MELK antibody [EPR3981] (ab108529)

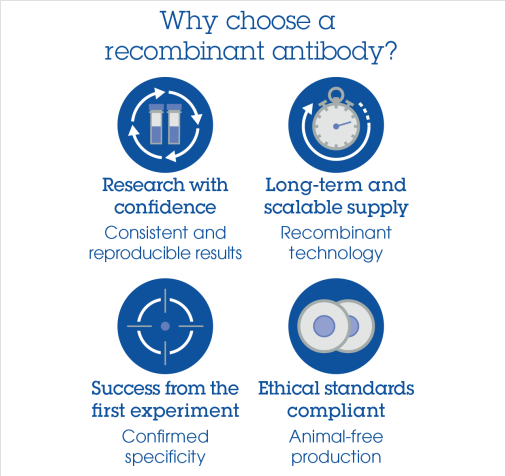
All lanes : Anti-MELK antibody [EPR3981] (ab108529) at 1/1000 dilution

Lane 1 : K562 cell lysate
Lane 2 : 293T cell lysate
Lane 3 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP-labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 75 kDa



Anti-MELK antibody [EPR3981] (ab108529)

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