

Anti-DKK1 antibody [EPR4759] ab109416

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **40 References** 画像数 7

製品の概要

製品名	Anti-DKK1 antibody [EPR4759]
製品の詳細	Rabbit monoclonal [EPR4759] to DKK1
由来種	Rabbit
特異性	Although our internal data shows that this antibody is not suitable to detect DKK1 in rats, this antibody has been referenced in PMID 29299122 and 25469240 to work with rat derived cells. Please contact technical@abcam.com for further information.
アプリケーション	適用あり: WB, IHC-P 適用なし: Flow Cyt or ICC/IF
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: HEK-293, Caco-2, U-2 OS, MOLT4, A549, PC-3, NCI-H460, DU145 and SK-OV-3 whole cell lysates IHC-P: Human placenta and liver tissue
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR4759
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ab109416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。

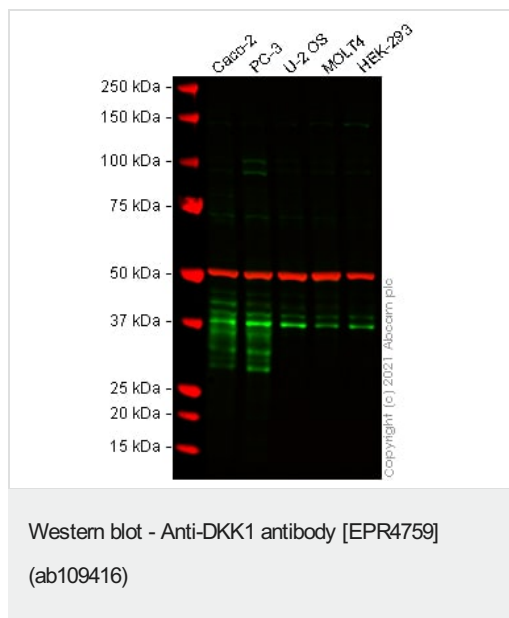
アプリケーション	Abreviews	特記事項
WB	★ ★ ★ ★ ★ (1)	1/1000 - 1/10000. Detects a band of approximately 38 kDa (predicted molecular weight: 29 kDa).
IHC-P		1/800. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> . 1/250.00000 - 1/500.00000

追加情報 Is unsuitable for Flow Cyt or ICC/IF.

ターゲット情報

機能	Antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease.
組織特異性	Placenta.
配列類似性	Belongs to the dickkopf family.
ドメイン	The C-terminal cysteine-rich domain mediates interaction with LRP5 and LRP6.
細胞内局在	Secreted.

画像



All lanes : Anti-DKK1 antibody [EPR4759] (ab109416) at 1/2000 dilution

Lane 1 : Caco-2 cell lysate

Lane 2 : PC-3 cell lysate

Lane 3 : U-2 OS cell lysate

Lane 4 : MOLT4 cell lysate

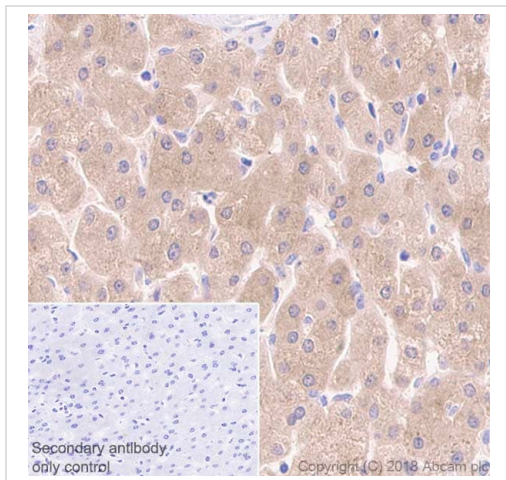
Lane 5 : HEK-293 cell lysate

Performed under reducing conditions.

Predicted band size: 29 kDa

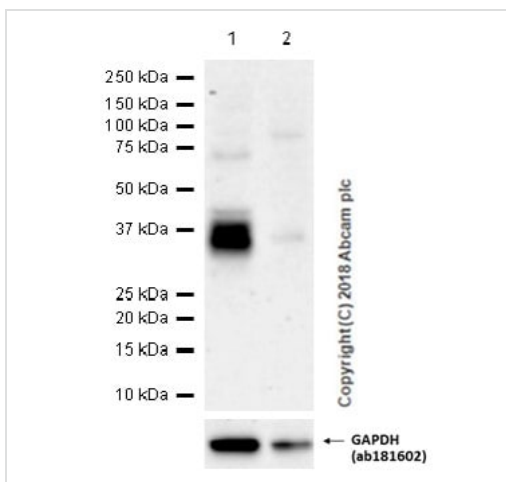
Observed band size: 30-45 kDa

False colour image of Western blot: Anti-DKK1 antibody [EPR4759] staining at 1/2000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. To generate this image, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DKK1 antibody [EPR4759] (ab109416)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling DKK1 with Purified ab109416 at 1:800 dilution (1.04 µg/ml). Heat mediated antigen retrieval was performed using using **ab93684** (Tris/EDTA buffer, pH 9.0) ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain



Western blot - Anti-DKK1 antibody [EPR4759] (ab109416)

All lanes : Anti-DKK1 antibody [EPR4759] (ab109416) at 1/10000 dilution

Lane 1 : Caco-2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 29 kDa

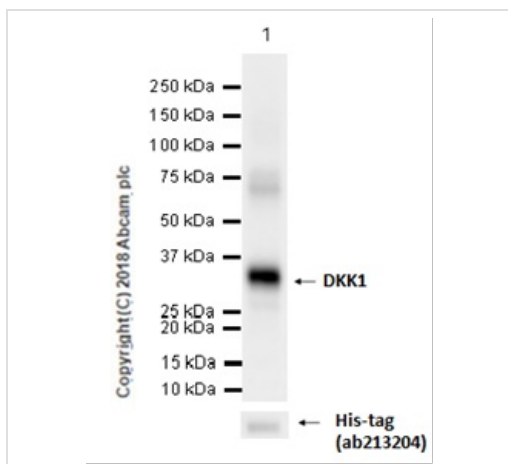
Observed band size: 29-40 kDa

Exposure time: 180 seconds

Blocking/Diluting buffer and concentration 5% NFDM/TBST.

HEK-293 and 293T cell are weak expressed cell lines for DKK1

protein (PMID: [18502762](#), PMID: 15378020).



Western blot - Anti-DKK1 antibody [EPR4759]
(ab109416)

Anti-DKK1 antibody [EPR4759] (ab109416) at 1/1000 dilution +
His-Tagged human DKK1 (aa 32 to 266) recombinant protein,
100ng

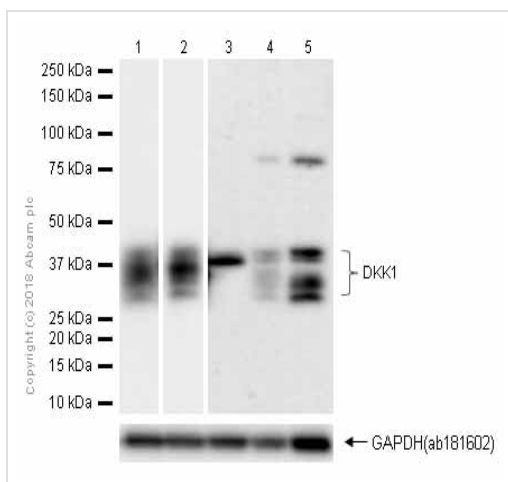
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 29 kDa

Blocking/Diluting buffer and concentration 5% NFDM /TBST

Exposure time: 5.5 seconds



Western blot - Anti-DKK1 antibody [EPR4759]
(ab109416)

All lanes : Anti-DKK1 antibody [EPR4759] (ab109416) at 1/2000
dilution (purified)

Lane 1 : A549 (Human lung carcinoma epithelial cell) whole cell
lysates

Lane 2 : PC-3 (Human prostate adenocarcinoma epithelial cell)
whole cell lysates

Lane 3 : NCI-H460 (Human Large Cell Lung Cancer epithelial cell)
whole cell lysates

Lane 4 : DU145 (Human prostate carcinoma epithelial cell) whole
cell lysates

Lane 5 : SK-OV-3 (Human ovarian cancer epithelial cell) whole cell
lysates

Lysates/proteins at 20 µg per lane.

Secondary

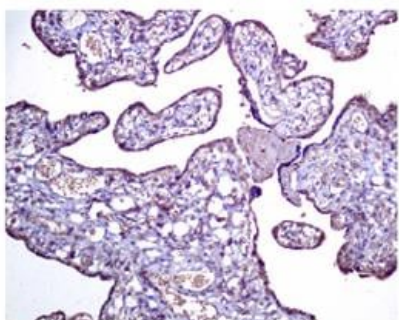
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000
dilution

Predicted band size: 29 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

The smear bands detected by ab109416 are similar to those

reported by the papers (PMID: 18546262, 28090290, 24008318), which should be due to the glycosylation of DKK1.



Immunohistochemical analysis of paraffin-embedded Human placenta tissue using 1/100 unpurified ab109416.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DKK1 antibody [EPR4759] (ab109416)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-DKK1 antibody [EPR4759] (ab109416)

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