

Product datasheet

Anti-WNK1 (phospho T58) antibody ab53137

★★★★★ 1 Abreviews 2 References 画像数 2

製品の概要

製品名	Anti-WNK1 (phospho T58) antibody
製品の詳細	Rabbit polyclonal to WNK1 (phospho T58)
由来種	Rabbit
特異性	ab53137 detects endogenous levels of WNK1 only when phosphorylated at threonine 58.
アプリケーション	適用あり: WB, IHC-P, ELISA
種交差性	交差種: Mouse, Rat, Human
免疫原	A synthetic phosphopeptide derived from human WNK1 around the phosphorylation site of threonine 58 (R-H-T ^P -M-D).
ポジティブ・コントロール	293 cell extracts treated with EGF (200ng/ml, 30mins) and human breast carcinoma tissue.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
精製度	Immunogen affinity purified
特記事項 (精製)	ab53137 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab53137** in the following tested applications.

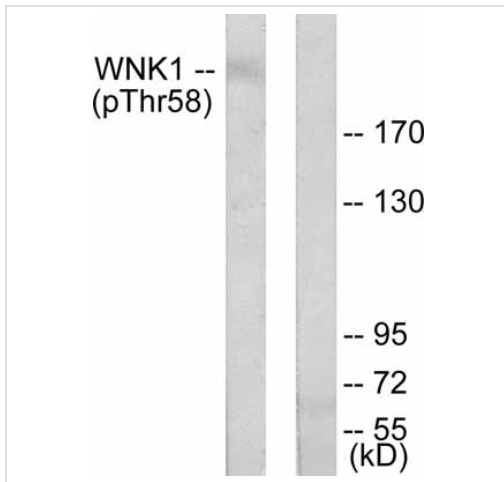
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB	★★★★★	1/300 - 1/1000. Detects a band of approximately 251 kDa (predicted molecular weight: 251 kDa).
IHC-P		Use at an assay dependent concentration.
ELISA		1/5000.

ターゲット情報

機能	Serine/threonine kinase which plays an important role in the regulation of electrolyte homeostasis, cell signaling, survival, and proliferation. Acts as an activator and inhibitor of sodium-coupled chloride cotransporters and potassium-coupled chloride cotransporters respectively. Activates SCNN1A, SCNN1B, SCNN1D and SGK1. Controls sodium and chloride ion transport by inhibiting the activity of WNK4, by either phosphorylating the kinase or via an interaction between WNK4 and the autoinhibitory domain of WNK1. WNK4 regulates the activity of the thiazide-sensitive Na-Cl cotransporter, SLC12A3, by phosphorylation. WNK1 may also play a role in actin cytoskeletal reorganization. Phosphorylates NEDD4L. Acts as a scaffold to inhibit SLC4A4, SLC26A6 as well as CFTR activities and surface expression, recruits STK39 which mediates the inhibition.
組織特異性	Widely expressed, with highest levels observed in the testis, heart, kidney and skeletal muscle. Isoform 3 is kidney-specific and specifically expressed in the distal convoluted tubule (DCT) and connecting tubule (CNT) of the nephron.
関連疾患	Pseudohypoaldosteronism 2C Neuropathy, hereditary sensory and autonomic, 2A
配列類似性	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WNK subfamily. Contains 1 protein kinase domain.
翻訳後修飾	O-glycosylated. Ubiquitinated in vitro by the BCR(KLHL3) complex and in vivo by a BCR(KLHL2) complex, leading to proteasomal degradation.
細胞内局在	Cytoplasm.

画像



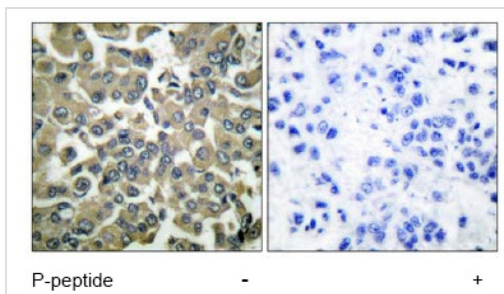
Western blot - WNK1 (phospho T58) antibody (ab53137)

All lanes : Anti-WNK1 (phospho T58) antibody (ab53137) at 1/300 dilution

Lane 1 : 293 cell extract treated with EGF (200ng/ml, 30mins)

Lane 2 : 293 cell extract treated with EGF (200ng/ml, 30mins) with immunising peptide

Predicted band size: 251 kDa



Immunohistochemistry (Paraffin-embedded sections) - WNK1 (phospho T58) antibody (ab53137)

ab53137 at 1/50 dilution staining WNK1 in human breast carcinoma by Immunohistochemistry, Paraffin embedded tissue, in the absence or presence of the immunising peptide.

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