abcam

Product datasheet

Anti-AKT (phospho T308) antibody ab38449

5 Abreviews 669 References 画像数 3

製品の概要

製品名	Anti-AKT (phospho T308) antibody
製品の詳細	Rabbit polyclonal to AKT (phospho T308)
由来種	Rabbit
特異性	This antibody was made against a peptide directed against the phosphorylated form of AKT1 at T308, but due to a high degree of homology it is predicted to cross react with AKT2 and AKT3 if they are phosphorylated at the corresponding residue.
アプリケーション	**適用あり:** WB, IHC-P
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human AKT aa 250-350 (phospho T308). Database link: **P31749**
特記事項	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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 0.87% Sodium chloride, 50% Glycerol, PBS
精製度	Immunogen affinity purified
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

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ab38449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	(3)	1/500 - 1/1000. Predicted molecular weight: 56 kDa. Block in 5% non-fat milk in TBST, RT, 90min. In order to detect a clear signal, treatment is required when using this antibody.
IHC-P	(1)	Use at an assay dependent concentration.

ターゲット情報

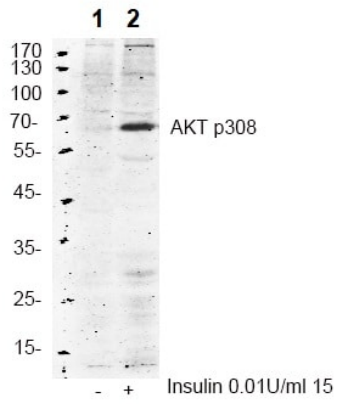
関連性

AKT, also known as protein kinase B (PKB), is a serine/threonine protein kinase. There are three mammalian isoforms of AKT: AKT1 (PKB alpha), AKT2 (PKB beta) and AKT3 (PKB gamma) with AKT2 and AKT3 being approximately 82% identical with the AKT1 isoform. Each isoform has a pleckstrin homology (PH) domain, a kinase domain and a carboxy terminal regulatory domain. AKT was originally cloned from the retrovirus AKT8, and is a key regulator of many signal transduction pathways. Its tight control over cell proliferation and cell viability are manifold; overexpression or inappropriate activation of AKT has been seen in many types of cancer. AKT mediates many of the downstream events of phosphatidylinositol 3 kinase (a lipid kinase activated by growth factors, cytokines and insulin). PI3 kinase recruits AKT to the membrane, where it is activated by PDK1 phosphorylation. Once phosphorylated, AKT dissociates from the membrane and phosphorylates targets in the cytoplasm and the cell nucleus. AKT has two main roles: (i) inhibition of apoptosis; (ii) promotion of proliferation. AKT has been shown to play a role in such metabolic processes as glucose transport, glycogen synthesis, glycolysis, and protein synthesis. It had also been shown to promote cell survival by inhibiting apoptosis through its ability to phosphoylate and inactivate several targets, including Bad, Forkhead transcription factors, and caspase 9. Activity of AKT has been associated with the phosphorylation of two sites: T308, in the activation loop of the kinase, and S473, at the carboxyl terminus. Phosphorylation of both sites contributes to AKT activity, however phosphorylation of T308 has been shown to be absolutely essential for AKT activation.

細胞内局在

Cell Membrane, Cytoplasmic and Nuclear. Note=Nucleus after activation by integrin-linked protein kinase 1 (ILK1).

画像



Western blot - Anti-AKT (phospho T308) antibody (ab38449)

All lanes : Anti-AKT (phospho T308) antibody (ab38449) at 1/1000 dilution

Lane 1 : HeLa cells
Lane 2 : HeLa cells treated with 0.01 U/mL Insulin for 15 minutes

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (H+L) HRP at 1/10000 dilution

Predicted band size: 56 kDa

10% gel.

Running conditions: 60v, 30min; 120v 60min

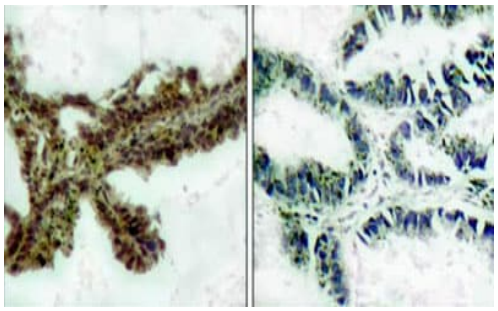
Transfer conditions: 150mA 120min Nitrocellulose membrane.

Blocking conditions: 5% non-fat milk in TBST, RT, 90min.

Primary antibody incubation: 4?, overnight

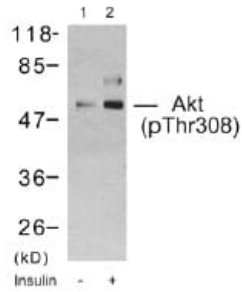
Secondary antibody incubation: room temperature for 45 minutes

Washing condition: 5 ml TBST, 4 x 5min



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AKT (phospho T308) antibody (ab38449)

Immunohistochemical analysis of AKT (phospho T308) expression in paraffin embedded human lung carcinoma tissue, using ab38449 (1/50). Right-hand panel represents a negative control where ab38449 was pre-incubated with the immunizing (blocking) peptide.



Western blot - Anti-AKT (phospho T308) antibody (ab38449)

All lanes : Anti-AKT (phospho T308) antibody (ab38449) at 1/500 dilution

Lane 1 : 293 cell lysate - untreated
Lane 2 : 293 cell lysate - treated with insulin

Lysates/proteins at 30 µg per lane.

Predicted band size: 56 kDa
Observed band size: 56 kDa

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