

Datasheet for ABIN872304 anti-PIK3CB antibody (pSer1070)

4 Images

Publication

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Overview

| Quantity: | 100 μL |
|----------------------|--|
| Target: | PIK3CB |
| Binding Specificity: | pSer1070 |
| Reactivity: | Human, Mouse, Rat, Dog, Rabbit |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PIK3CB antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

| Immunogen: | KLH conjugated synthetic phosphopeptide derived from human PI3 Kinase p110 beta around the phosphorylation site of Ser1070 |
|-----------------------|--|
| lsotype: | lgG |
| Specificity: | This phosphorylation site is homologous to that of Ser1064 in Mouse and Ser1070 in Rat. |
| Cross-Reactivity: | Dog, Human, Mouse, Rabbit, Rat |
| Predicted Reactivity: | Cow,Pig,Horse,Chicken,Guinea Pig |
| Purification: | Purified by Protein A. |

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Target Details

| Target: | PIK3CB |
|---------------------|---|
| Alternative Name: | PI3 Kinase p110 beta (PIK3CB Products) |
| Background: | Synonyms: Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform, PI3- |
| | kinase subunit beta, PI3K-beta, PI3Kbeta, PtdIns-3-kinase subunit beta, Phosphatidylinositol 4, |
| | bisphosphate 3-kinase 110 kDa catalytic subunit beta, PtdIns-3-kinase subunit p110-beta, |
| | p110beta, PIK3CB, PIK3C1 |
| | Background: Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns |
| | (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns(4,5)P2 |
| | (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate |
| | (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, |
| | including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, |
| | proliferation, motility and morphology. Involved in the activation of AKT1 upon stimulation by G |
| | protein coupled receptors (GPCRs) ligands such as CXCL12, sphingosine 1-phosphate, and |
| | lysophosphatidic acid. May also act downstream receptor tyrosine kinases. Required in |
| | different signaling pathways for stable platelet adhesion and aggregation. Plays a role in |
| | platelet activation signaling triggered by GPCRs, alpha-IIb/beta-3 integrins (ITGA2B/ ITGB3) an |
| | ITAM (immunoreceptor tyrosine-based activation motif)-bearing receptors such as GP6. |
| | Regulates the strength of adhesion of ITGA2B/ ITGB3 activated receptors necessary for the |
| | cellular transmission of contractile forces. Required for platelet aggregation induced by F2 |
| | (thrombin) and thromboxane A2 (TXA2). Has a role in cell survival. May have a role in cell |
| | migration. Involved in the early stage of autophagosome formation. Modulates the intracellula |
| | level of PtdIns3P (Phosphatidylinositol 3-phosphate) and activates PIK3C3 kinase activity. May |
| | act as a scaffold, independently of its lipid kinase activity to positively regulate autophagy. May |
| | have a role in insulin signaling as scaffolding protein in which the lipid kinase activity is not |
| | required. May have a kinase-independent function in regulating cell proliferation and in clathrin |
| | mediated endocytosis. Mediator of oncogenic signal in cell lines lacking PTEN. The lipid kinase |
| | activity is necessary for its role in oncogenic transformation. Required for the growth of ERBB2 |
| | and RAS driven tumors. |
| Gene ID: | 5291 |
| UniProt: | P42338 |
| Application Details | |
| Application Notes: | WB 1:300-5000 |
| | ELISA 1:500-1000 |

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| Restrictions: | For Research Use only |
|---------------|-----------------------|
| | IF(ICC) 1:50-200 |
| | IF(IHC-F) 1:50-200 |
| | IF(IHC-P) 1:50-200 |
| | IHC-F 1:100-500 |
| | IHC-P 1:200-400 |
| | |

Handling

| Format: | Liquid |
|--------------------|---|
| Concentration: | 1 µg/µL |
| Buffer: | 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |
| Publications | |
| Product cited in: | Qiao, Rong, Wang, Zhang: "Involvement of Akt/GSK3β/CREB signaling pathway on chronic omethoate induced depressive-like behavior and improvement effects of combined lithium |

omethoate induced depressive-like behavior and improvement effects of combined lithium chloride and astaxanthin treatment." in: **Neuroscience letters**, Vol. 649, pp. 55-61, (2017) (PubMed).



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-phospho-PI3 Kinase p110 beta(Ser1070) Polyclonal Antibody, Unconjugated (ABIN872304) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Rabbit Anti-PI3 Kinase p110 beta(Ser1070) Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 3. Lane 1: human colon carcinoma lysates Lane 2: mouse brain lysates probed with Anti phospho-PI3 Kinase p110 beta(Ser1070) Polyclonal Antibody, Unconjugated (ABIN872304) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 110-123kD. Observed band size: 115,120kD.

Please check the product details page for more images. Overall 4 images are available for ABIN872304.

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