

PI3-kinase p85-alpha (Phospho-Tyr607) Rabbit mAb

Catalog No: #12057



Package Size: #12057-1 50ul #12057-2 100ul

Orders: order@signalwayantibody.com

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Description

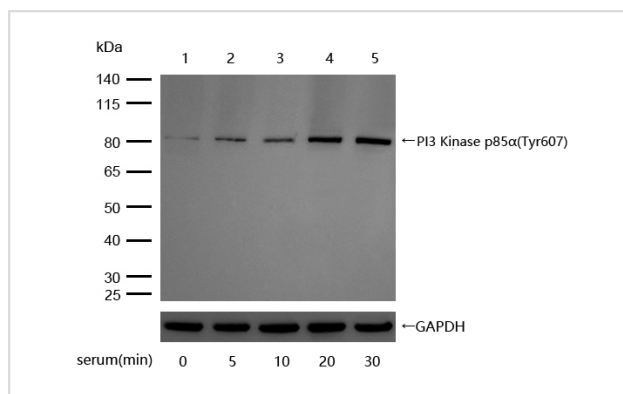
Product Name	PI3-kinase p85-alpha (Phospho-Tyr607) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Isotype	IgG
Applications	WB;IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of PI3-kinase p85- alpha only when phosphorylated at Tyrosine 607.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Tyrosine 607(D-Q-Y(p)-S-L) derived from Human PI3-kinase p85-alpha.
Conjugates	Unconjugated
Target Name	PI3-kinase p85- alpha
Modification	Phospho
Other Names	p85, AGM7, GRB1, p85-ALPHA, PIK3R1
Accession No.	Swiss-Prot#: P27986; NCBI Gene#: 5295; NCBI Protein#: NP_001229395.1
Calculated MW	84 kDa
SDS-PAGE MW	80 kDa
Concentration	0.6mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

WB: 1:200~1:500

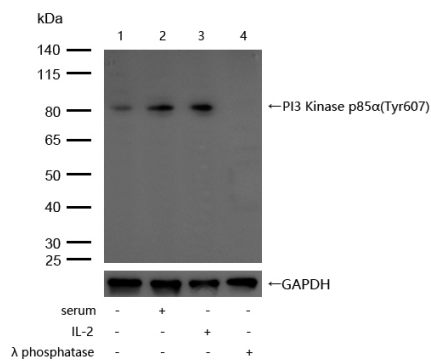
IHC: 1:50~1:300

Images

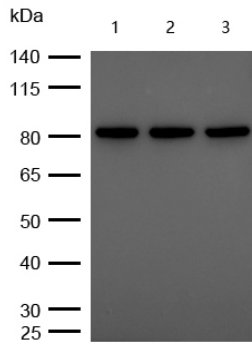


All lanes : Phospho-PI3 Kinase p85α(Tyr607) Rabbit Monoclonal Antibody at 1/500 dilution Lane 1 : MCF7 treated with serum starvation whole cell lysates Lane 2 : MCF7 treated with serum for 5min whole cell lysates Lane 3 : MCF7 treated with serum for 10min whole cell lysates

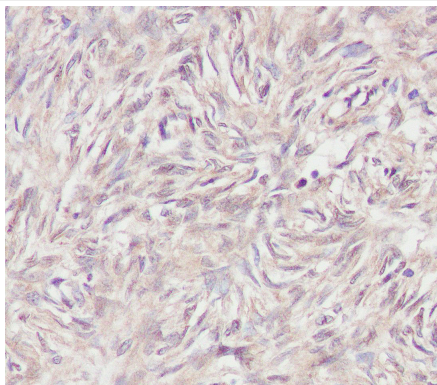
Lane 4 : MCF7 treated with serum for 20min whole cell lysates Lane 5 : MCF7 treated with serum for 30min whole cell lysates Lysates/proteins at 20 µg per lane. Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution Predicted band size: 84 kDa Observed band size: 80 kDa Exposure time: 8 seconds



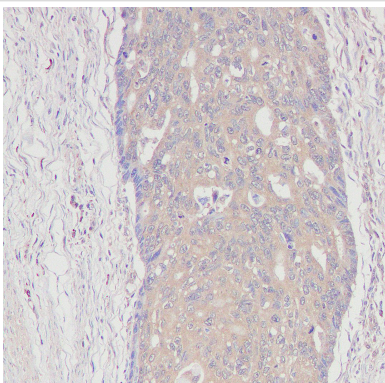
All lanes : Phospho-PI3 Kinase p85α(Tyr607) Rabbit Monoclonal Antibody at 1/500 dilution Lane 1 : MCF7 whole cell lysates Lane 2 : MCF7 treated with serum for 30min whole cell lysates Lane 3 : MCF7 treated with 50ng/ml IL-2 for 15min whole cell lysates Lane 4 : MCF7 treated with Lambda Protein Phosphatase for 30min whole cell lysates Lysates/proteins at 20 µg per lane. Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution Predicted band size: 84 kDa Observed band size: 80 kDa Exposure time: 6 seconds



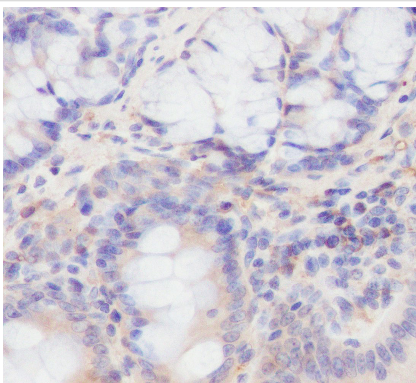
All lanes : Phospho-PI3 Kinase p85α(Tyr607) Rabbit Monoclonal Antibody at 1/500 dilution Lane 1 : 3T3 treated with 100ng/ml EGF for 20min whole cell lysates Lane 2 : C6 treated with serum for 30min whole cell lysates Lane 3 : PC12 treated with 100ng/ml EGF for 20min whole cell lysates Lysates/proteins at 20 µg per lane. Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution Predicted band size: 84 kDa Observed band size: 80 kDa Exposure time: 6 seconds



Formalin-fixed, paraffin-embedded human breast carcinoma tissue stained for Phospho-PI3 Kinase p85α(Tyr607) using 12057 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human colon carcinoma tissue stained for Phospho-PI3 Kinase p85α(Tyr607) using 12057 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded rat colon tissue stained for Phospho-PI3 Kinase p85α(Tyr607) using 12057 at 1/100 dilution in immunohistochemical analysis.

Background

Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. Plays an important role in signaling in response to FGFR1, FGFR2, FGFR3, FGFR4, KITLG/SCF, KIT, PDGFRA and PDGFRB. Likewise, plays a role in ITGB2 signaling.

Published Papers

el at., SLC3A2 Is Upregulated in Human Osteosarcoma and Promotes Tumor Growth Through the PI3K/Akt Signaling Pathway.In Oncol Rep on 2017 May by Bin Zhu, Dongdong Cheng,et al..PMID: 28350098, , (2017)

[PMID:28350098](#)

el at., Organic anion transporters and PI3K-AKT-mTOR pathway mediate the synergistic anticancer effect of pemetrexed and rhein. In J Cell Physiol on 2020 Apr by Tianci Bu, Changyuan Wang, et al..PMID:31587272, , (2020)

[PMID:31587272](#)

el at., Grape seed proanthocyanidin extract ameliorates cisplatin-induced testicular apoptosis via PI3K/Akt/mTOR and endoplasmic reticulum stress pathways in rats. In J Food Biochem on 2021 Jun 21 by Xuhong Chang, Minmin Tian,et al..PMID:34152018, , (2021)

[PMID:34152018](#)

Xu Shixin;Zhang Miaomiao;Wang Ruoying;Zhang Jinxin;Wang Chengwei;Xie Li;Zhao Wen el at., Spatial dimension cues derived from fibrous scaffolds trigger mechanical activation to potentiate the paracrine and regenerative functions of MSCs via the FAK-PI3K/AKT axis, , (2024)

[PMID:](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.