



Datasheet for ABIN6256775
anti-PIK3R1 antibody (pTyr607)



[Go to Product page](#)

29 Images

5 Publications

Overview

Quantity:	100 µL
Target:	PIK3R1 (PI3K p85a)
Binding Specificity:	pTyr607
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3R1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PI3-kinase p85- alpha around the phosphorylation site of Tyrosine 607
Isotype:	IgG
Specificity:	Phospho-PI3-kinase p85- alpha (Tyr607) Antibody detects endogenous levels of PI3-kinase p85- alpha only when phosphorylated at Tyrosine 607
Cross-Reactivity:	Human, Mouse (Murine), Pig (Porcine), Rat (Rattus)
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	PIK3R1 (PI3K p85a)
Alternative Name:	PI3K p85 alpha (PI3K p85a Products)
Background:	<p>Description: 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 (PubMed:17626883, PubMed:19805105, PubMed:7518429). Modulates the cellular response to ER stress by promoting nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (PubMed:20348923).</p> <p>Gene: PIK3R1</p>
Molecular Weight:	80kDa
Gene ID:	5295
UniProt:	P27986
Pathways:	TCR Signaling , Response to Growth Hormone Stimulus , Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development , Hepatitis C , Protein targeting to Nucleus , VEGF Signaling , BCR Signaling , Warburg Effect

Application Details

Application Notes:	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:100-500
Restrictions:	For Research Use only

Handling

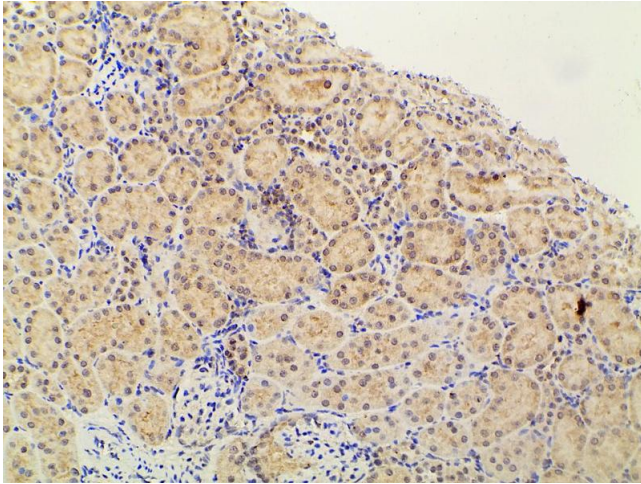
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt
Expiry Date:	12 months

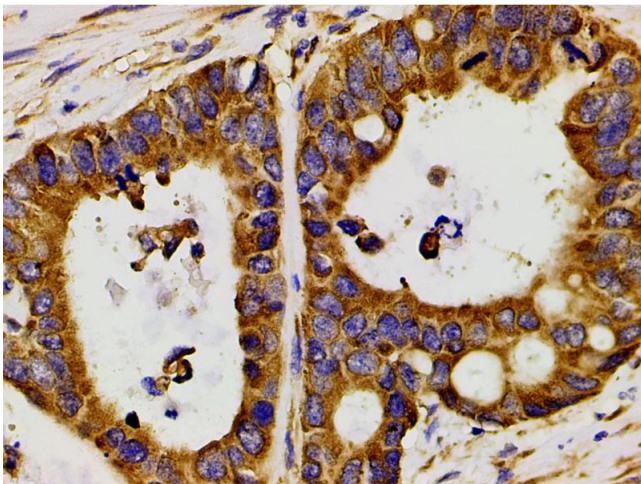
Publications

- Product cited in:
- Chang, Guo, Zhou, Huang, Yi, Dou, Huan: "HBP induces the expression of monocyte chemoattractant protein-1 via the FAK/PI3K/AKT and p38 MAPK/NF-κB pathways in vascular endothelial cells." in: **Cellular signalling**, Vol. 43, pp. 85-94, (2018) ([PubMed](#)).
- Chai, Bai, Li, Chen, Zhang: "Biological functions of lung cancer cells are suppressed in co-culture with mesenchymal stem cells isolated from umbilical cord." in: **Experimental and therapeutic medicine**, Vol. 15, Issue 1, pp. 1076-1080, (2018) ([PubMed](#)).
- Liu, Geng, Zhang, Wang, Zhang, Duan, Zhang: "Oligo-Porphyrin Ameliorates Neurobehavioral Deficits in Parkinsonian Mice by Regulating the PI3K/Akt/Bcl-2 Pathway." in: **Marine drugs**, Vol. 16, Issue 3, (2018) ([PubMed](#)).
- Wang, Li, Chen, Yang: "Umbilical cord-derived mesenchymal stem cells can inhibit the biological functions of melanoma A375 cells." in: **Oncology reports**, Vol. 40, Issue 1, pp. 511-517, (2018) ([PubMed](#)).
- Shang, Wang, Tong, Kang, Liang, Ge: "Prolyl hydroxylases positively regulated LPS-induced inflammation in human gingival fibroblasts via TLR4/MyD88-mediated AKT/NF-κB and MAPK pathways." in: **Cell proliferation**, pp. e12516, (2018) ([PubMed](#)).



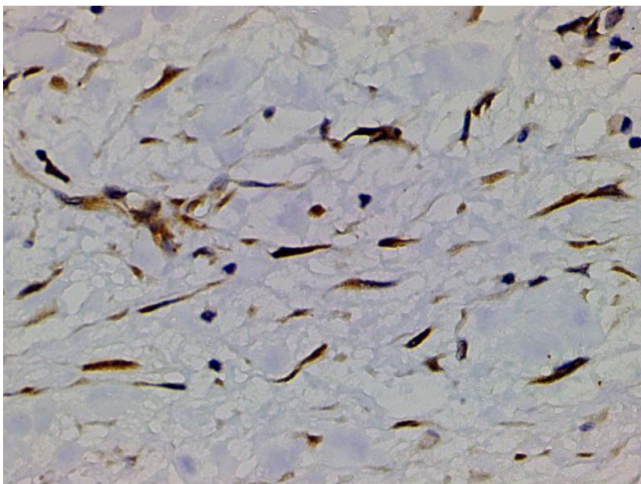
Immunohistochemistry

Image 1. ABIN6267452 at 1/100 staining rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunohistochemistry

Image 2. ABIN6267452 at 1/200 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunohistochemistry

Image 3. ABIN6267452 at 1/200 staining human bladder cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the [product details page](#) for more images. Overall 29 images are available for ABIN6256775.