bs-5538R **[Primary Antibody]**

phospho-PIK3R1 (Tyr368) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5295 **SWISS:** P27986

Target: phospho-PIK3R1 (Tyr368)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human PIK3R1 around the phosphorylation site of Tyr368: GD(p-Y)TL.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The enzyme phosphatidylinositol 3 kinase (PI3 kinase) is a lipid kinase that generates phosphatidylinositol 3, 4, 5-triphosphate in response to receptor activation in many signal transduction pathways. Class IA PI3Ks exist as a heterodimer of a catalytic 110 kDa (p110) and a regulatory p85 subunit (e.g. p85 alpha). p85 alpha is an adaptor molecule that regulates the activity of the catalytic p110 subunit by binding to phosphorylated receptor tyrosine kinases (RTKs) through its SH2 domain and mediating the interaction between p110 and the plasma membrane. p85 alpha is necessary for insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

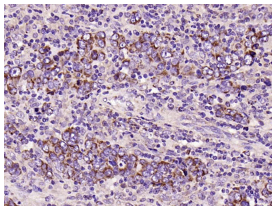
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Dog, Horse)

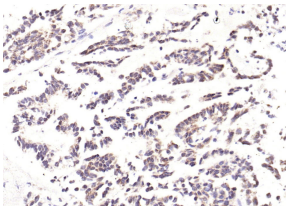
Predicted MW.: 84 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-PIK3R1 (Tyr368)) Polyclonal Antibody, Unconjugated (bs-5538R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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SELECTED CITATIONS

- **[IF=5.895]** Bendong Yang. et al. Naringenin Ameliorates Hyperuricemia by Regulating Renal Uric Acid Excretion via the PI3K/AKT Signaling Pathway and Renal Inflammation through the NF-κB Signaling Pathway. J AGR FOOD CHEM. 2022;XXXX(XXX):XXX-XXX WB ;Mouse, Human. 36525382
- **[IF=1.69]** Ren et al. Calycosin-7-O-β-D-glucoside attenuates ischemia-reperfusion injury in vivo via activation of the PI3K/Akt pathway. (2016) Mol.Med.Re. 13:633-40 WB ;rat. 26648122

- **[IF=2.34]** Yang et al. Epigallocatechin-3-gallate inhibits inflammation and epithelial-mesenchymal transition through the PI3K/AKT pathway via upregulation of PTEN in asthma. (2018) Int.J.Mol.Med. 41:818-828 WB ;Mouse. 29207033
- **[IF=2.41]** Chang et al. Analysis of the ways and methods of signaling pathways in regulating cell cycle of NIH3T3 at transcriptional level. (2015) BMC.Cell.Biol. 16:25 WB ;Mouse. 26511608