SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-phospho-PIK3R2 (Tyr467)/HRP Conjugated antibody

Catalog Number: SL5582R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-phospho-PIK3R2 (Tyr467)/HRP
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PIK3R2 around the phosphorylation site of Tyr467
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Dog,Cow,Horse,Rabbit)
Background:	background: Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates phosphatidylinositol and similar compounds, creating second messengers important in growth signaling pathways. PI3K functions as a heterodimer of a regulatory and a catalytic subunit. The protein encoded by this gene is a regulatory component of PI3K. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Dec 2012] **Function:** Binds to activated (phosphorylated) protein-tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. **Subunit:** Heterodimer of a regulatory subunit PIK3R2 and a p110 catalytic subunit (PIK3CA, PIK3CB or PIK3CD). Interacts with AXL. Interacts with

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	FLT1 (tyrosine-phosphorylated) and FLT4 (tyrosine-phosphorylated). Interacts with NYAP1, NYAP2 and MYO16. **Post-translational modifications:** Phosphorylated in response to signaling from activated receptor-type protein kinases. Dephosphorylated by PTPRJ. **Similarity:** Belongs to the PI3K p85 subunit family. Contains 1 Rho-GAP domain. Contains 2 SH2 domains. Contains 1 SH3 domain. **Database links:** **Entrez Gene:** 5296 Human Omim: 603157 Human **SwissProt:** O00459 Human **Unigene:** 371344 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.