

Mouse PIK3R1 Monoclonal Antibody | anti-PIK3R1 antibody

PIK3R1 (GRB1, Phosphatidylinositol 3-kinase Regulatory Subunit alpha, Phosphatidylinositol 3-kinase 85kD Regulatory Subunit alpha) (HRP)

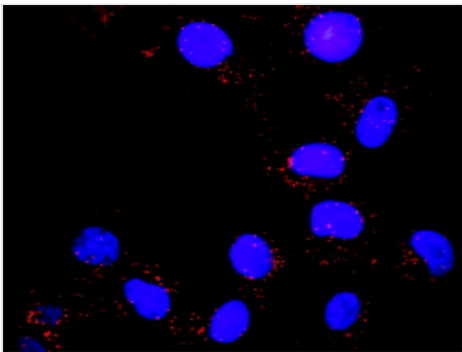
CATALOG # AAA25498	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

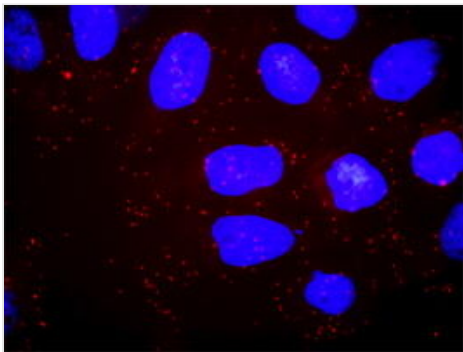
PIK3R1; Monoclonal Antibody; PIK3R1 (GRB1; Phosphatidylinositol 3-kinase Regulatory Subunit alpha; Phosphatidylinositol 3-kinase 85kD Regulatory Subunit alpha) (HRP); anti-PIK3R1 antibody

PRODUCT SPECIFICATIONS

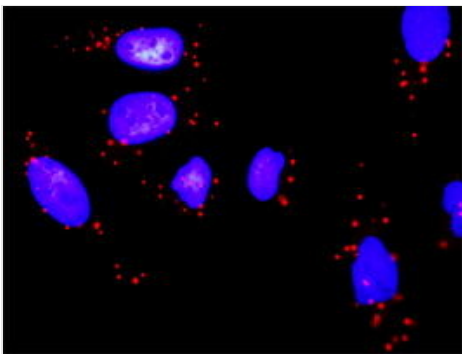
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3A10
Specificity	Recognizes human PIK3R1. Species Crossreactivity: mouse and rat.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Applicable Applications for anti-PIK3R1 antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Full length recombinant corresponding to aa1-454 from human PIK3R1 (AAH30815) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNMNSLQDAEWYWGDISREEVNEKLRDTADGTFLVRDASTKMHGDY
Conjugate	HRP
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C.



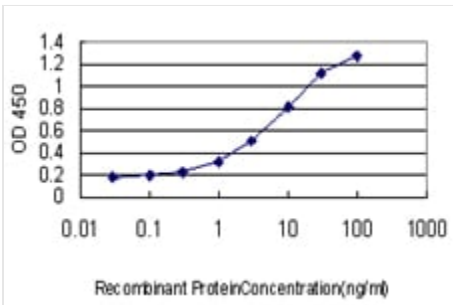
Application Data
Proximity Ligation Analysis of protein-protein interactions between CRKL and PIK3R1. Mahlavu cells were stained with anti-CRKL rabbit purified polyclonal 1:1200 and anti-PIK3R1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



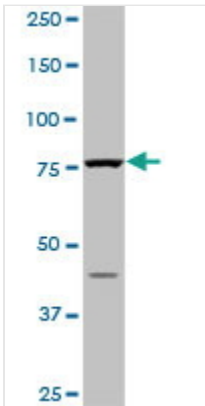
Application Data
Proximity Ligation Analysis of protein-protein interactions between FLT1 and PIK3R1 Huh7 cells were stained with anti-FLT1 rabbit purified polyclonal 1:1200 and anti-PIK3R1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



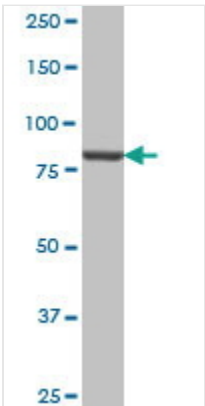
Application Data
Proximity Ligation Analysis of protein-protein interactions between EGFR and PIK3R1. HeLa cells were stained with EGFR rabbit purified polyclonal 1:1200 and PIK3R1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Application Data
Detection limit for recombinant GST tagged PIK3R1 is ~0.1ng/ml as a capture antibody.



WB (Western Blot)
PIK3R1 monoclonal antibody Western Blot analysis of PIK3R1 expression in PC-12.



WB (Western Blot)
PIK3R1 monoclonal antibody Western Blot analysis of PIK3R1 expression in HeLa.

ADDITIONAL INFORMATION

Related Product Information for anti-PIK3R1 antibody

PI3KR1 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. It is necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. It is a component of a heterodimer composed of P110 (catalytic) and P85 (regulatory) subunits. PI3KR1 is proposed to interact with phosphorylated TOM1L1. Defects in PIK3R1 are a cause of severe insulin resistance. The protein contains 1 Rho-GAP domain, 2 SH2 domains, and 1 SH3 domain.

Product Categories/Family for anti-PIK3R1 antibody

[Antibodies](#); [Protein Kinases](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	21410089
NCBI GeneID	5295
Molecular Weight	42,838 Da
NCBI Official Full Name	Homo sapiens phosphoinositide-3-kinase, regulatory subunit 1 (alpha), mRNA
NCBI Official Synonym Full Names	phosphoinositide-3-kinase regulatory subunit 1
NCBI Official Symbol	PIK3R1
NCBI Official Synonym Symbols	p85; AGM7; GRB1; IMD36; p85-ALPHA
NCBI Protein Information	phosphatidylinositol 3-kinase regulatory subunit alpha

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pik3r1-antibody-clone-3a10-immunoprecipitation-western-blot-elisa/25498>