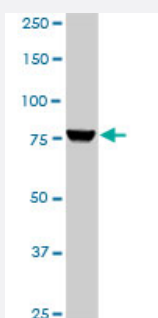


PIK3R1 monoclonal antibody (M01), clone 3A10

Catalog # H00005295-M01

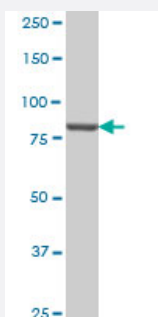
Size 100 ug

Applications



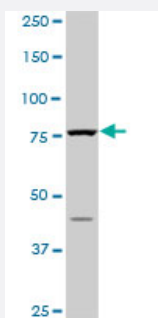
Western Blot (Cell lysate)

PIK3R1 monoclonal antibody (M01), clone 3A10. Western Blot analysis of PIK3R1 expression in Raw 264.7 (Cat # L024V1).



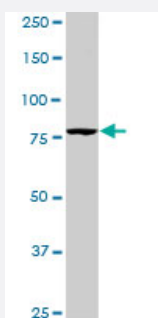
Western Blot (Cell lysate)

PIK3R1 monoclonal antibody (M01), clone 3A10 Western Blot analysis of PIK3R1 expression in HeLa (Cat # L013V1).



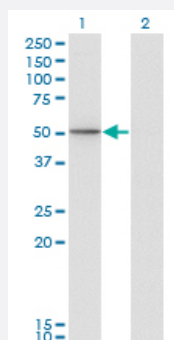
Western Blot (Cell lysate)

PIK3R1 monoclonal antibody (M01), clone 3A10. Western Blot analysis of PIK3R1 expression in PC-12 (Cat # L012V1).



Western Blot (Cell lysate)

PIK3R1 monoclonal antibody (M01), clone 3A10. Western Blot analysis of PIK3R1 expression in NIH/3T3 (Cat # L018V1).

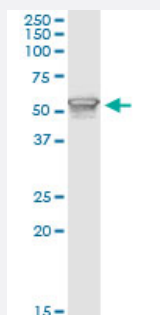


Western Blot (Transfected lysate)

Western Blot analysis of PIK3R1 expression in transfected 293T cell line by PIK3R1 monoclonal antibody (M01), clone 3A10.

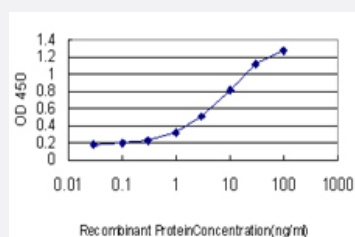
Lane 1: PIK3R1 transfected lysate (Predicted MW: 50 KDa).

Lane 2: Non-transfected lysate.



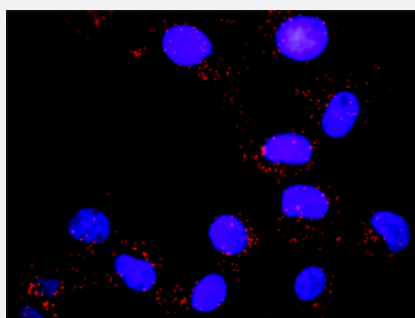
Immunoprecipitation

Immunoprecipitation of PIK3R1 transfected lysate using anti-PIK3R1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PIK3R1 monoclonal antibody.



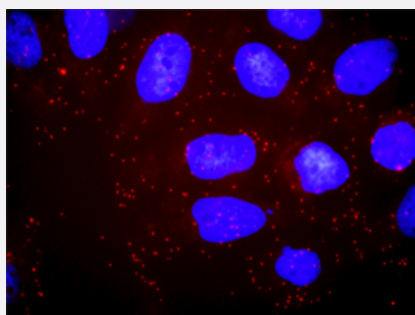
Sandwich ELISA (Recombinant protein)

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



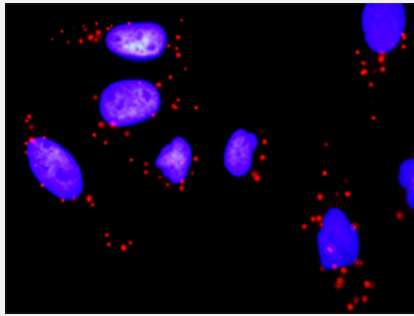
In situ Proximity Ligation Assay (Cell)

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).



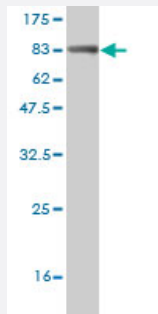
In situ Proximity Ligation Assay (Cell)

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).



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between EGFR and PIK3R1. HeLa cells were stained with anti-EGFR 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).



Western Blot detection against Immunogen (75.68 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant PIK3R1.
Immunogen	PIK3R1 (AAH30815, 1 a.a. ~ 454 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNNMSLQDAEWY WGDISREEVNEKLRDADGTFLVRDASTKMHGDTLTLRKGNNKLIKIFHRDGKYGFSDPLTFSS VVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHKYNTQFQEKSSREYDRL YEEYTRTSQEIQMKRTAIEAFNETIKIFEEQCQTQERYSKYIEKFKREGNEKEIQRIMHNYDKLSRI SEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLQKGVRRQKLNEWLGNE NTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVD GEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDNLNVTLAYPVYAQRRR
Host	Mouse
Reactivity	Human, Mouse, Rat
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (75.68 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

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[Protocol Download](#)

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[Protocol Download](#)

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[Protocol Download](#)

- Western Blot (Transfected lysate)

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Lane 1: PIK3R1 transfected lysate (Predicted MW: 50 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

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[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of PIK3R1 transfected lysate using anti-PIK3R1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PIK3R1 monoclonal antibody.

[Protocol Download](#)

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Gene Info — PIK3R1

Entrez GeneID

[5295](#)

GeneBank Accession#

[BC030815](#)

Protein Accession#

[AAH30815](#)

Gene Name

PIK3R1

Gene Alias

GRB1, p85, p85-ALPHA

Gene Description

phosphoinositide-3-kinase, regulatory subunit 1 (alpha)

Omim ID

[171833](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in three transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations

phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)|phosphatidylinositol 3-kinase, regulatory, 1|phosphatidylinositol 3-kinase-associated p-85 alpha|phosphoinositide-3-kinase, regulatory subunit 1 (p85 alpha)|phosphoinositide-3-ki

Publication Reference

- [An analysis of protein-protein interactions in cross-talk pathways reveals CRKL as a novel prognostic marker in hepatocellular carcinoma.](#)

Liu CH, Chen TC, Chau GY, Jan YH, Chen CH, Hsu CN, Lin KT, Juang YL, Lu PJ, Cheng HC, Chen MH, Chang CF, Ting YS, Kao CY, Hsiao M, Huang CY.

Molecular & Cellular Proteomics 2013 May; 12(5):1335.

Application: Profiling, Human, Huh7 cells, Mahlavu cells

Pathway

- [Acute myeloid leukemia](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Glioma](#)
- [Insulin signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Melanoma](#)
- [mTOR signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)

- [Neurotrophin signaling pathway](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)
- [VEGF signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Body Weight](#)
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- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
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- [Pancreatic Neoplasms](#)
- [Periodontitis](#)
- [Polycystic Ovary Syndrome](#)
- [Prostatic Neoplasms](#)
- [Tobacco Use Disorder](#)