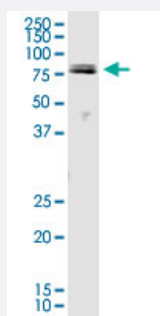


PIK3R1 monoclonal antibody (M02), clone 1C10

Catalog # H00005295-M02

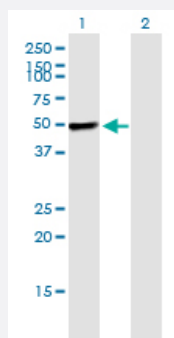
Size 100 ug

Applications



Western Blot (Cell lysate)

PIK3R1 monoclonal antibody (M02), clone 1C10. Western Blot analysis of PIK3R1 expression in Jurkat.

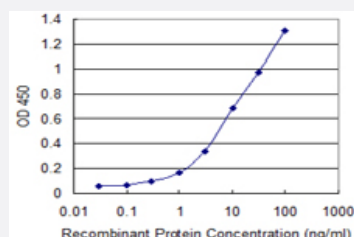


Western Blot (Transfected lysate)

Western Blot analysis of PIK3R1 expression in transfected 293T cell line by PIK3R1 monoclonal antibody (M02), clone 1C10.

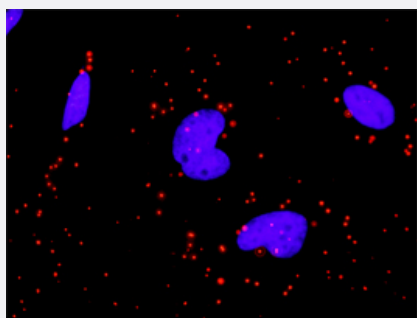
Lane 1: PIK3R1 transfected lysate (Predicted MW: 50 KDa).

Lane 2: Non-transfected lysate.



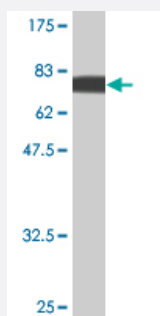
Sandwich ELISA (Recombinant protein)

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



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PDGFRα and PIK3R1. HeLa cells were stained with anti-PDGFRα 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 WGDISREEVNEKLKRDADGTFLVRDASTKMHGDTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFSS VVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHKYNTQFQEKSSREYDRL YEEYTRTSQEIQMKRTAIEAFNETKIFEEQCQTQERYSEYIEFKREGNEKEIQRIMHNYDKLKSRI SEIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGVRRQKKLNEWLGNE NTEDQYSLVEDDEDLPHHDEKTNVNGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVD GEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDLSLNVTLAYPVYAQQRR
Host	Mouse
Reactivity	Human
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)

PIK3R1 monoclonal antibody (M02), clone 1C10. Western Blot analysis of PIK3R1 expression in Jurkat.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of PIK3R1 expression in transfected 293T cell line by PIK3R1 monoclonal antibody (M02), clone 1C10.

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

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

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

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

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](#)
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- [Colon cancer](#)
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- [Tobacco Use Disorder](#)