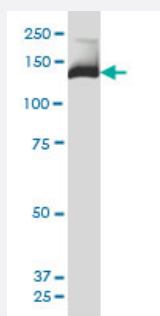


PIK3R4 monoclonal antibody (M02), clone 1B5

Catalog # H00030849-M02

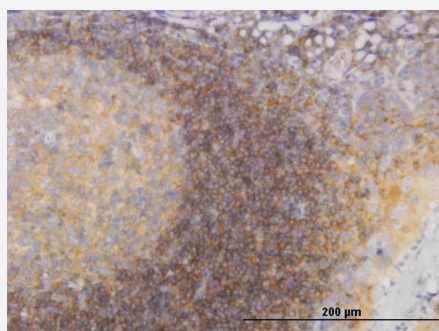
Size 100 ug

Applications



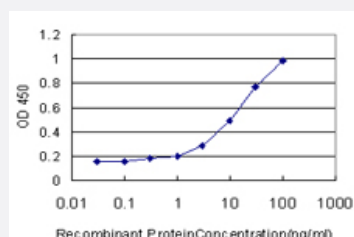
Western Blot (Cell lysate)

PIK3R4 monoclonal antibody (M02), clone 1B5 Western Blot analysis of PIK3R4 expression in HeLa (Cat # L013V1).



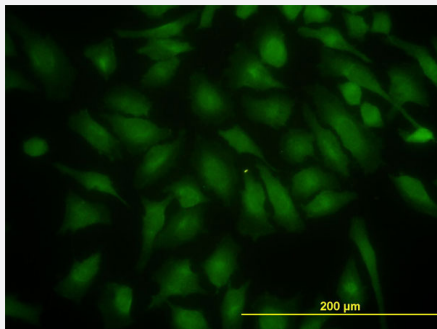
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to PIK3R4 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 0.6 ug/ml]



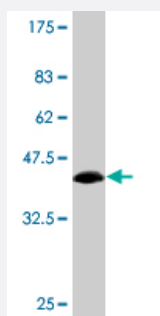
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PIK3R4 is approximately 0.3ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PIK3R4 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PIK3R4.
Immunogen	PIK3R4 (NP_055417, 1259 a.a. ~ 1358 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	AGSDMKIRFWDLAYPERSYVVGSTSSPSVSYYRKIIIEGTEVVQEIQNKQKVGPSDDTPRRGPES LPVGHHDIIITDVATFQTTQGFMTASRDGIVKVWK
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (95); Rat (93)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 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)

PIK3R4 monoclonal antibody (M02), clone 1B5 Western Blot analysis of PIK3R4 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PIK3R4 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PIK3R4 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — PIK3R4

Entrez GeneID	30849
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GeneBank Accession#	NM_014602
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Protein Accession#	NP_055417
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Gene Name	PIK3R4
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Gene Alias	MGC102700, VPS15, p150
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Gene Description	phosphoinositide-3-kinase, regulatory subunit 4
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Omim ID	602610
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Gene Ontology

[Hyperlink](#)

Gene Summary

O

Other Designations

phosphatidylinositol 3-kinase-associated p150|phosphoinositide-3-kinase, regulatory subunit 4, p150

Publication Reference

- [Class 3 PI3K coactivates the circadian clock to promote rhythmic de novo purine synthesis.](#)

Chantal Alkhoury, Nathaniel F Henneman, Volodymyr Petrenko, Yui Shibayama, Arianna Segaloni, Alexis Gadault, Ivan Nemazanyy, Edouard Le Guillou, Amare Desalegn Wolide, Konstantina Antoniadou, Xin Tong, Teruya Tamaru, Takeaki Ozawa, Muriel Girard, Karim Hnia, Dominik Lutter, Chama Dibner, Ganna Panasyuk.

Nature Cell Biology 2023 Jul; 25(7):975.

Application: ChIP, IP, IF, WB, Human, Mouse, AML12, HEK293T, MEF, Mouse hepatocytes, Mouse liver

- [Neuronal lysosomal dysfunction releases exosomes harboring APP C-terminal fragments and unique lipid signatures.](#)

Miranda AM, Lasiecka ZM, Xu Y, Neufeld J, Shahriar S, Simoes S, Chan RB, Oliveira TG, Small SA, Di Paolo G.

Nature Communications 2018 Jan; 9(1):291.

Application: WB, Mouse, Mouse cortical neurons

- [Autophagy dysregulation in Danon disease.](#)

Nascimbeni AC, Fanin M, Angelini C, Sandri M.

Cell Death & Disease 2017 Jan; 8(1):e2565.

Application: IF, WB-Ti, Human, Muscle biopsies from patients with Danon Disease (DD) and glycogen storage disease type II (GSDII)

- [Insulin activation of vacuolar protein sorting 34 mediates localized phosphatidylinositol 3-phosphate production at lamellipodia and activation of mTOR/S6K1.](#)

Hirsch DS, Shen Y, Dokmanovic M, Yu J, Mohan N, Elzarrad MK, Wu WJ.

Cellular Signalling 2014 Jun; 26(6):1258.

Application: IF, WB-Tr, Mouse, Monkey, NIH/3T3, COS-7 cells

- [Regulation of Mammalian Autophagy by Class II and III PI 3-Kinases through PI3P Synthesis.](#)

Devereaux K.

PLoS One 2013 Oct; 8(10):e76405.

Application: WB-Ce, Mouse, MEFs

Pathway

- [Regulation of autophagy](#)