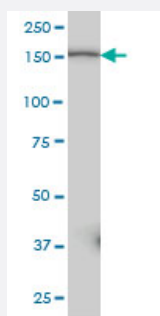


PIK3C2B monoclonal antibody (M02), clone 3E5

Catalog # H00005287-M02

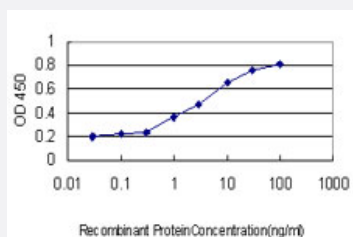
Size 100 ug

Applications



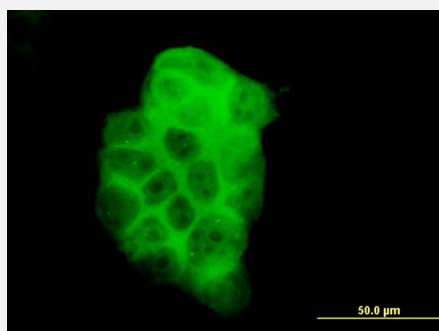
Western Blot (Cell lysate)

PIK3C2B monoclonal antibody (M02), clone 3E5 Western Blot analysis of PIK3C2B expression in A-431 (Cat # L015V1).



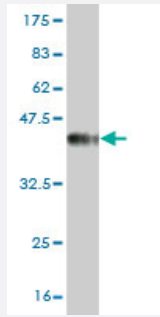
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PIK3C2B is approximately 1ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PIK3C2B on A-431 cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PIK3C2B.
Immunogen	PIK3C2B (NP_002637, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSSTQDNGEHWKSLESVGISRKELAMAEALQMEYDALSRHRHDKEENRAKQNADPSLISWDEP GVDFYSKPAGRRDCLKLLRGLSGSDPTLNYNLSLSPQEGPPNHSTSQG
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90); Rat (88)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 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)

PIK3C2B monoclonal antibody (M02), clone 3E5 Western Blot analysis of PIK3C2B expression in A-431 (Cat # L015V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PIK3C2B is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PIK3C2B on A-431 cell. [antibody concentration 10 ug/ml]

Gene Info — PIK3C2B

Entrez GeneID [5287](#)

GeneBank Accession# [NM_002646](#)

Protein Accession# [NP_002637](#)

Gene Name PIK3C2B

Gene Alias C2-PI3K, DKFZp686G16234

Gene Description phosphoinositide-3-kinase, class 2, beta polypeptide

Omim ID [602838](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca²⁺, which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq]

Other Designations OTTHUMP00000034333|PI3K-C2beta|PTDINS-3-kinase C2 beta|phosphatidylinositol 3-kinase C2 domain-containing beta polypeptide

Pathway

- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Prostatic Neoplasms](#)
- [Tobacco Use Disorder](#)