For Research Use Only

PI3 Kinase p85 Alpha Monoclonal antibody

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Catalog Number:60225-1-Ig Featured Product 144 Publications

Basic Information

Catalog Number:
60225-1-Ig

Size:
2000 μg/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG2344

GenBank Accession Number:
BC030815

GeneID (NCBI):
5295

UNIPROT ID:
P27986

Full Name:
phosphoinositide-3-kinase, regulatory subunit 1 (alpha)

Calculated MW:
85 kDa

Observed MW:
85 kDa

Purification Method:
Protein A purification

CloneNo.:
4G3C11

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
WB,IHC,IF,ELISA,CoIP

Species Specificity:
human, mouse, pig, rat, rabbit

Cited Species:
human, rat, mouse, pig, canine, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, fetal human brain tissue, rat brain tissue, mouse brain tissue, pig brain tissue, A549 cells, Jurkat cells, Neuro-2a cells, PC-12 cells, rat skeletal muscle tissue, rabbit brain tissue, pig skeletal muscle tissue

IP : RAW 264.7 cells,

IHC : mouse lung tissue, human prostate cancer tissue, human skeletal muscle tissue, mouse brain tissue

Background Information

Phosphatidylinositol 3-kinase (PI3K) plays an important role in the metabolic actions of INS and is required for adipogenesis. The PI3K pathway has also been identified as an important player in cancer development and progression. The Class IA PI3K heterodimer, which is composed of a P110 catalytic subunit and a P85 regulatory subunit, is activated upon association of the P85 subunit with upstream adaptor proteins or receptor tyrosine kinases. Mutations in PIK3R1 are implicated in cases of breast cancer and associated to SHORT syndrome.

Notable Publications

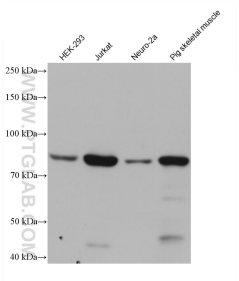
Author	Pubmed ID	Journal	Application
Yi Yu	34585393	J Periodontol	WB
Hong-Miao Wang	32994913	Ther Adv Chronic Dis	WB
Lihua Liu	36112519	J Agric Food Chem	WB

Storage

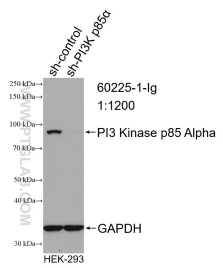
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

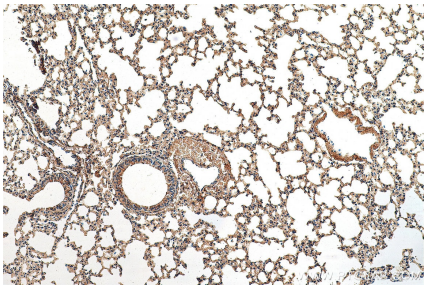
Selected Validation Data



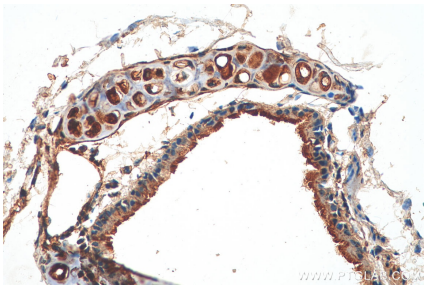
Various lysates were subjected to SDS PAGE followed by western blot with 60225-1-Ig (PI3 Kinase p85 Alpha antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



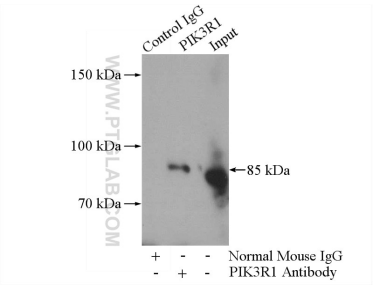
WB result of PI3 Kinase p85 Alpha antibody (60225-1-Ig; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-PI3 Kinase p85 Alpha transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 60225-1-Ig (PI3 Kinase p85 Alpha antibody) at dilution of 1:50 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 60225-1-Ig (PI3 Kinase p85 Alpha antibody) at dilution of 1:50 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PI3 Kinase p85 Alpha (IP:60225-1-Ig, 5ug; Detection:60225-1-Ig 1:500) with RAW 264.7 cells lysate 1480ug.