

For Research Use Only

# PI3 Kinase p85 Alpha Monoclonal antibody

Catalog Number: 60225-1-Ig

Featured Product

222 Publications



## Basic Information

Catalog Number:

60225-1-Ig

Size:

150ul, Concentration: 2000 ug/ml by Nanodrop;

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 1:1000-1:4000

## Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP, ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

Cited Species:

human, mouse, rat, pig, canine, bovine, duck

**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, A549 cells, fetal human brain tissue, Jurkat cells, MCF-10A cells, mouse brain tissue, Neuro-2a cells, PC-12 cells, pig brain tissue, rabbit brain tissue, rat brain tissue, rat skeletal muscle tissue, pig skeletal muscle tissue, U-251 cells, HT-29 cells, HuT 78 cells, C2C12 cells

**IP**: RAW 264.7 cells,

**IHC**: human placenta tissue, human prostate cancer tissue, human skeletal muscle tissue, mouse brain tissue, mouse lung 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, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

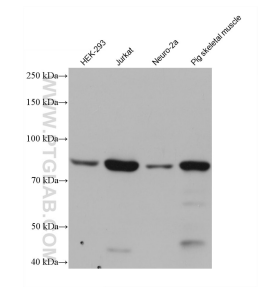
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

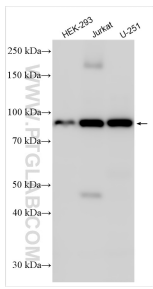
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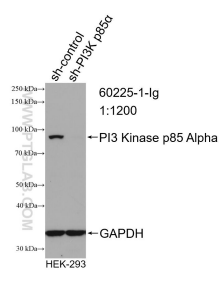
Selected Validation Data



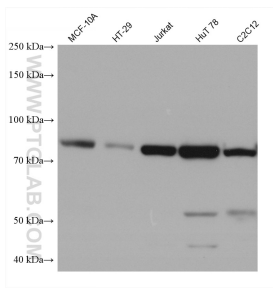
Various lysates were subjected to SDS PAGE followed by western blot with 60225-1-Ig (PI3 Kinase p85 Alpha antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



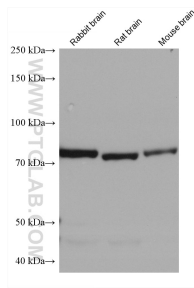
Various lysates were subjected to SDS PAGE followed by western blot with 60225-1-Ig (PI3 Kinase p85 Alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



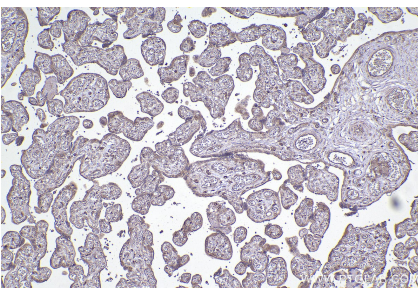
WB result of PI3 Kinase p85 Alpha antibody (60225-1-Ig; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-PI3 Kinase p85 Alpha transfected HEK-293 cells.



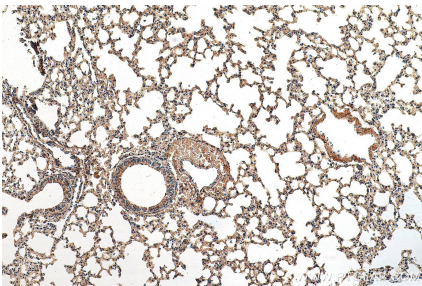
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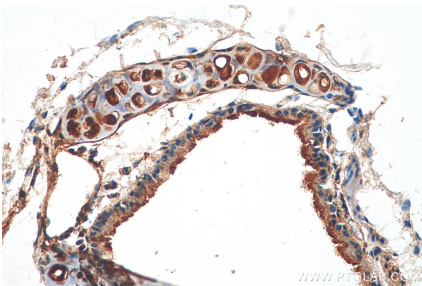
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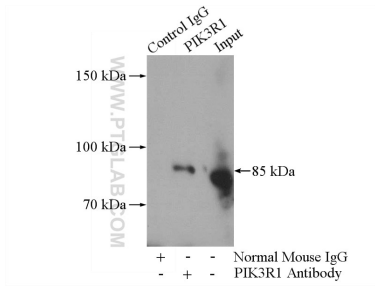
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 60225-1-Ig (PI3 Kinase p85 Alpha antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 60225-1-Ig (PI3 Kinase p85 Alpha antibody) at dilution of 1:50 (under 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.