

PI 3 Kinase p85 beta Rabbit mAb

Catalog No: #48868

Package Size: #48868-1 50ul #48868-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

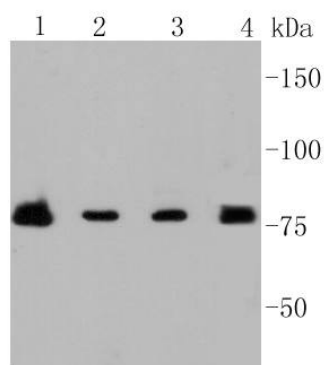
Description

Product Name	PI 3 Kinase p85 beta Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST04-77
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	p85 antibody p85 beta antibody P85B antibody P85B_HUMAN antibody Phosphatidylinositol 3 kinase antibody Phosphatidylinositol 3 kinase regulatory beta subunit antibody Phosphatidylinositol 3 kinase regulatory subunit beta antibody Phosphatidylinositol 3 kinase regulatory subunit polypeptide 2 antibody Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 2 (p85 beta) antibody Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta antibody Phosphatidylinositol 3-kinase regulatory subunit beta antibody Phosphoinositide 3 kinase regulatory subunit 2 (beta) antibody Phosphoinositide 3 kinase regulatory subunit 2 antibody Phosphoinositide 3 kinase regulatory subunit polypeptide 2 (p85 beta) antibody Phosphoinositide 3 kinase regulatory subunit polypeptide 2 antibody Phosphoinositide 3 kinase, regulatory subunit 2 (beta) antibody Phosphoinositide 3 kinase, regulatory subunit 2 (p85 beta) antibody PI3 kinase p85 beta subunit antibody PI3 kinase p85 subunit beta antibody PI3-kinase regulatory subunit beta antibody PI3-kinase subunit p85-beta antibody PI3K antibody PI3K regulatory subunit beta antibody PIK3R 2 antibody PIK3R2 antibody PtdIns 3 kinase p85 beta antibody PtdIns-3-kinase regulatory subunit beta antibody PtdIns-3-kinase regulatory subunit p85-beta antibody
Accession No.	Swiss-Prot#:O00459
Calculated MW	82 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

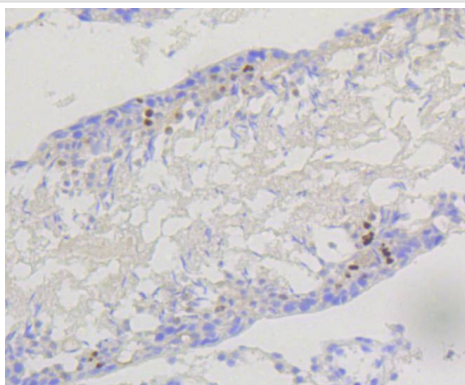
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

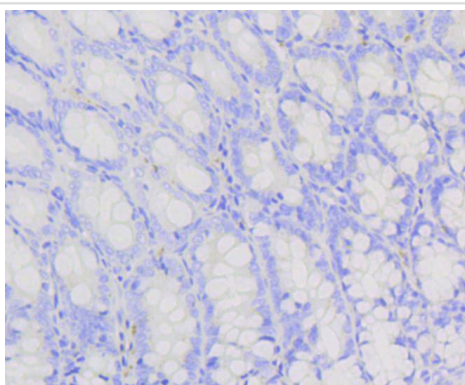
Images



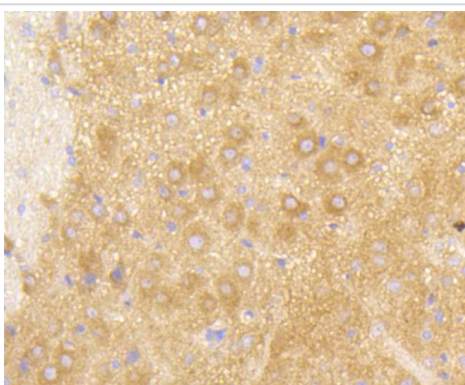
Western blot analysis of PI 3 Kinase p85 beta on different lysates using anti-PI 3 Kinase p85 beta antibody at 1/1,000 dilution. Positive control:
 Lane 1: Raji
 Lane 2: Hela
 Lane 3: MCF-7
 Lane 4: U937



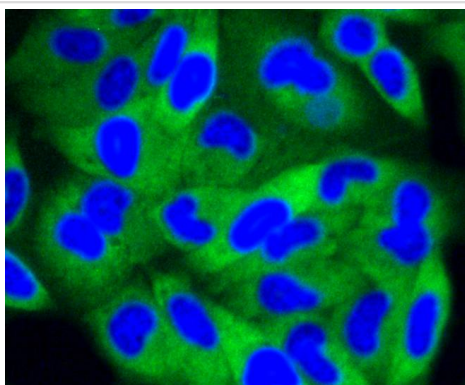
Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.



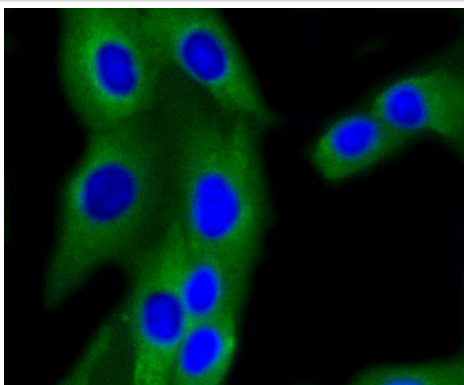
Immunohistochemical analysis of paraffin-embedded rat colon tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.



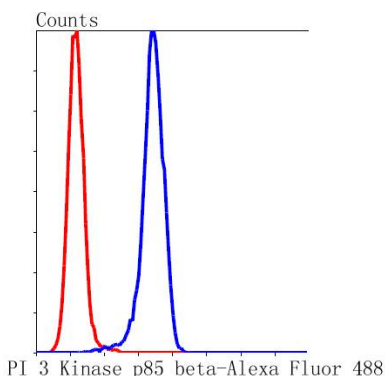
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.



ICC staining PI 3 Kinase p85 beta in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PI 3 Kinase p85 beta in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with PI 3 Kinase p85 beta antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Phosphatidylinositol 3-kinase (PI 3-kinase) is composed of p85 and p110 subunits. p85 lacks PI 3-kinase activity and acts as an adapter, coupling p110 to activated protein tyrosine kinase. Two forms of p85 have been described (p85 α and p85 β), each possessing one SH3 and two SH2 domains. Various p110 isoforms have been identified. p110 α and p110 β interact with p85 α , and p110 α has also been shown to interact with p85 β in vitro. p110 α expression is restricted to white blood cells. It has been shown to bind p85 α and p85 β , but it apparently does not phosphorylate these subunits. p110 α seems to have the capacity to autophosphorylate. p110 α does not interact with the p85 subunits. It has been shown to be activated by α and β heterotrimeric G proteins.

References

1. Vaca Jacome A.S., et al. N-terminome analysis of the human mitochondrial proteome. *Proteomics* 15:2519-2524(2015).
2. Mirzaa G.M., et al. Characterisation of mutations of the phosphoinositide-3-kinase regulatory subunit, PIK3R2, in perisylvian polymicrogyria: a next-generation sequencing study. *Lancet Neurol.* 14:1182-1195(2015).

Published Papers

el at., Effect of electrical stimulation combined with diet therapy on Insulin resistance via mTOR signalling. In *Mol Med Rep* on 2019 Dec by Huang S, Tang N, et al..PMID:31702811, , (2019)

[PMID:31702811](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.