Product Datasheet

PI 3 Kinase p85 beta Rabbit mAb

Catalog No: #48868

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

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

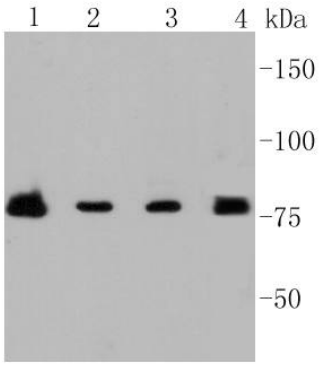
Description

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

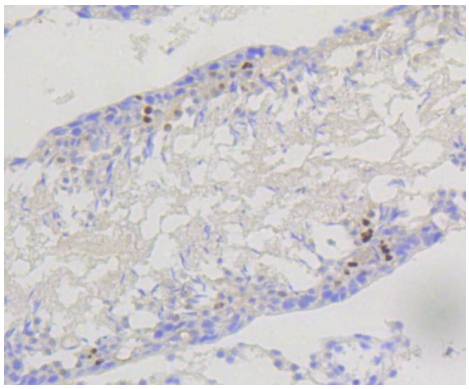
Application Details

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

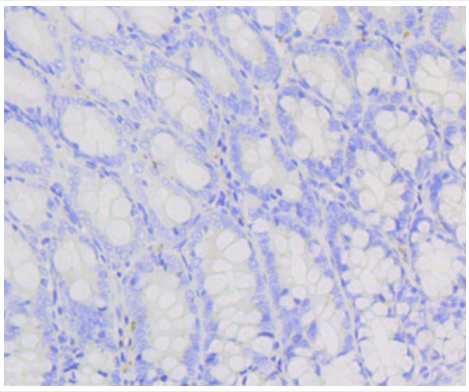
Images



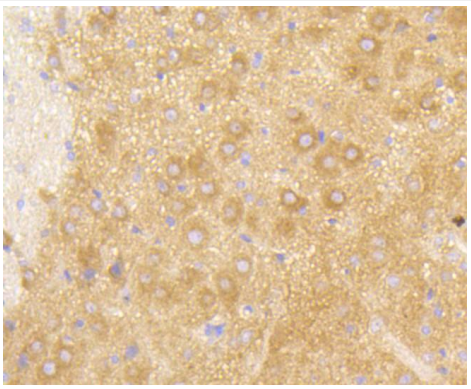
Western blot analysis of PI 3 Kinase p85 beta on different lysates using anti-PI 3 Kinase p85 beta antibody at 1/1,000 dilution. Positive control:
Lane 1: Raji
Lane 2: Hela
Lane 3: MCF-7
Lane 4: U937



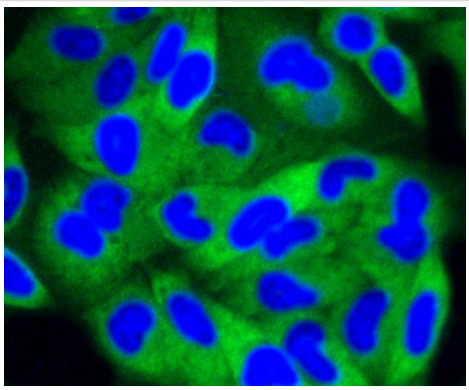
Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.



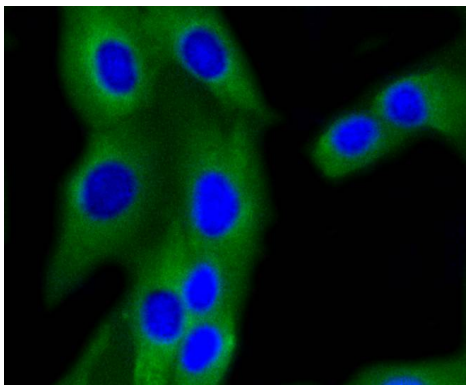
Immunohistochemical analysis of paraffin-embedded rat colon tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.



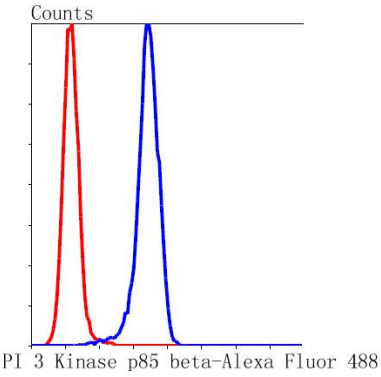
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.



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 (p85α and p85β), each possessing one SH3 and two SH2 domains. Various p110 isoforms have been identified. p110α and p110β interact with p85α, and p110α has also been shown to interact with p85β in vitro. p110α expression is restricted to white blood cells. It has been shown to bind p85α and p85β, but it apparently does not phosphorylate these subunits. p110α seems to have the capacity to autophosphorylate. p110α 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

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PMID:31702811

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