

Anti-PI 3 Kinase p85 beta Antibody (9A867)

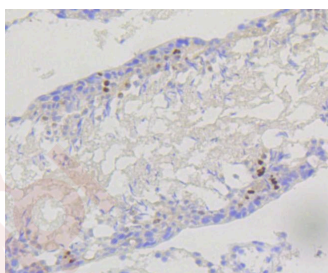
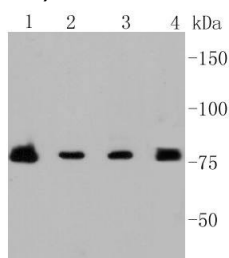
Product Details

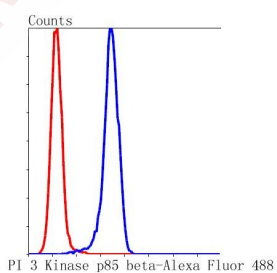
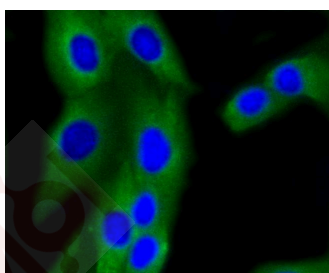
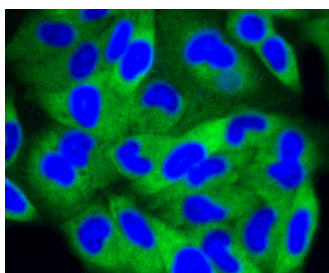
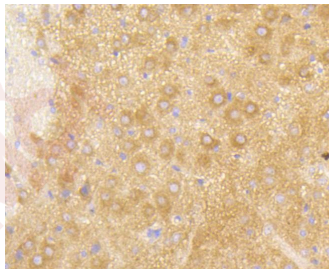
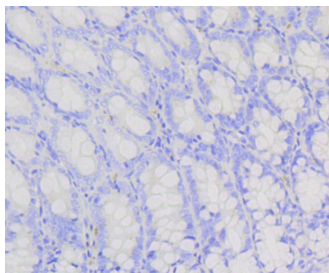
Ig Type:	IgG
Reactivity:	Human,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 82 kDa.
Clone:	9A867
Purification:	ProA affinity purified

Applications

Verified Activity:

1. 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.
2. Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat colon tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-PI 3 Kinase p85 beta antibody. Counter stained with hematoxylin.
5. 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.
6. 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.
7. 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.





Application: FCM, ICC/IF, IHC, IP, WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O00459

Phosphatidylinositol 3 kinase regulatory subunit beta;PI3 kinase p85 beta subunit; Phosphoinositide 3 kinase regulatory subunit polypeptide 2 (p85 beta);P85B_HUMAN;p85 beta; Phosphatidylinositol 3 kinase regulatory beta subunit;Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 2 (p85 beta);PI3K;Phosphoinositide 3 kinase regulatory subunit 2;PIK3R 2; Phosphatidylinositol 3 kinase;Phosphatidylinositol 3-kinase regulatory subunit beta;PI 3 Kinase p85 β ;PtdIns-3-kinase regulatory subunit p85-beta;p85;PI 3 Kinase p85 b;PIK3R2;

Synonyms: Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta;Phosphoinositide 3 kinase, regulatory subunit 2 (p85 beta);PI3 kinase p85 subunit beta;Phosphoinositide 3 kinase regulatory subunit 2 (beta);Phosphatidylinositol 3 kinase regulatory subunit polypeptide 2; Phosphoinositide 3 kinase regulatory subunit polypeptide 2;PI3-kinase regulatory subunit beta; P85B;PI3K regulatory subunit beta;PtdIns 3 kinase p85 beta;Phosphoinositide 3 kinase, regulatory subunit 2 (beta);PI3-kinase subunit p85-beta;PtdIns-3-kinase regulatory subunit beta

Research 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.

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