Data Sheet (Cat.No.TMAB-01479)

Anti-Phospho-PI3 kinase p85 alpha/gamma (Tyr467, Tyr199) Polyclonal Antibody

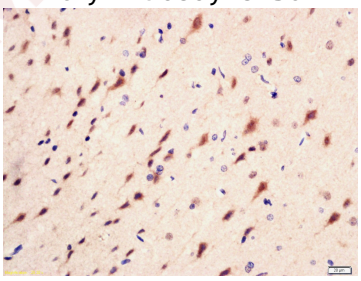
Product Details

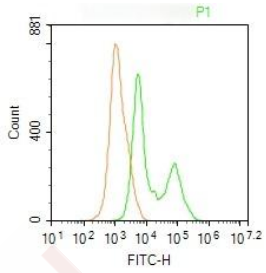
Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 85/55 kDa.
Purification:	Protein A purified

Applications

Verified Activity:

1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-phospho-PI3 kinase p85 alpha+gamma (Tyr467+Tyr199) Polyclonal Antibody, Unconjugated (TMAB-01479) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
2. Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-phospho-PI3 kinase p85 alpha + gamma (Tyr467 + Tyr199)/FITC Conjugated antibody (TMAB-01479-FITC)
Dilution: 1 μg/10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG-FITC.
Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at-20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. The cells were stained with Primary Antibody for 30 min at room temperature.





Application:	FCM,IF,IHC-Fr,IHC-P
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1ug/test

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:	KLH conjugated Synthesised phosphopeptide: human PI3 kinase p85 alpha around the phosphorylation site of Tyr467
Antigen Species:	Human
Gene ID:	5295
Uniprot ID:	P27986
Synonyms:	PI3-kinase p85 subunit gamma;PtdIns-3-kinase regulatory subunit p85-alpha; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha;PI3K regulatory subunit alpha; PI3-kinase regulatory subunit alpha;p-PI3 kinase p85 alpha/gamma (Y467, Y199);PI 3-kinase p85 α;PI3 kinase p85 alpha/gamma (p-Y467, p-Y199);PI 3-kinase p85-α;PI3-kinase p85 subunit alpha;PI3-kinase subunit p85-alpha;PI 3 Kinase p85 alpha;p85;p85-ALPHA;phosphoinositide-3-kinase regulatory subunit 1;Phosphatidylinositol 3-kinase regulatory subunit alpha;PI3 kinase p85 alpha/gamma (p-Tyr467, p-Tyr199);IMD36;PI 3-kinase p85α;P85A; SH3_PI3K_p85alpha;PtdIns-3-kinase regulatory subunit alpha;AGM7;GRB1;p-PI3 kinase p85 alpha/gamma (Tyr467, Tyr199)
Biology Area:	Signal transduction,TLR Signaling,Lipid Kinases

Research Background

The enzyme phosphatidylinositol 3 kinase (PI3 kinase) is a lipid kinase that generates phosphatidylinositol 3, 4, 5-triphosphate in response to receptor activation in many signal transduction pathways. Class IA PI3Ks exist as a heterodimer of a catalytic 110 kDa (p110) and a regulatory p85 subunit (e.g. p85 alpha). p85 alpha is an adaptor molecule that regulates the activity of the catalytic p110 subunit by binding to phosphorylated receptor tyrosine kinases (RTKs) through its SH2 domain and mediating the interaction between p110 and the plasma membrane. p85 alpha is necessary for insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

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