

Anti-PIK3R1 Antibody (1Z225)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig)
Molecular Weight:	Theoretical: 80 kDa. Actual: 80 kDa.
Clone:	1Z225
Purification:	Protein G purified

Applications

1. SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (PI 3 Kinase p85 alpha) monoclonal Antibody, Unconjugated (TMAB-01539) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

2. Sample:

Lane 1: Jurkat (Human) Cell Lysate at 30 µg

Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 µg

Lane 3: Cerebrum (Mouse) Lysate at 40 µg

Lane 4: Cerebrum (Rat) Lysate at 40 µg

Lane 5: Heart (Mouse) Lysate at 40 µg

Lane 6: Heart (Rat) Lysate at 40 µg

Lane 7: Skeletal muscle (Mouse) Lysate at 40 µg

Lane 8: Skeletal muscle (Rat) Lysate at 40 µg

Lane 9: Spleen (Mouse) Lysate at 40 µg

Lane 10: MOLT4 (Human) Cell Lysate at 30 µg

Primary: Anti-PI 3 Kinase p85 alpha (TMAB-01539) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Verified Activity:

Predicted band size: 85 kDa

Observed band size: 85 kDa

3. Sample: BRL-3A Cell (Rat) Lysate at 40 µg

Primary: Anti-PI3K p85 (TMAB-01539) at 1/1000 dilution

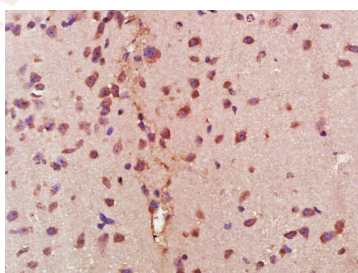
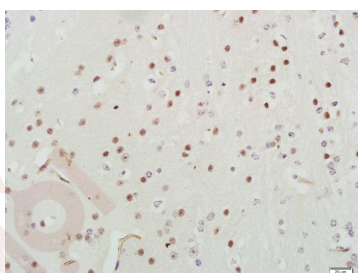
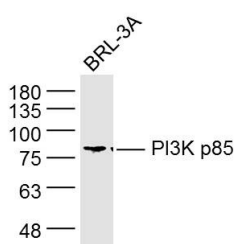
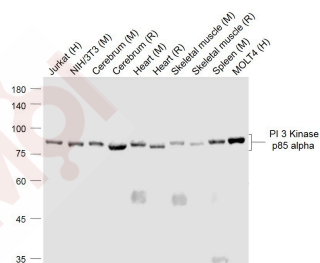
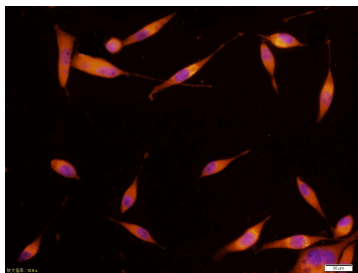
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 80 kDa

Observed band size: 80 kDa

4. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PI3K p85) Monoclonal Antibody, Unconjugated (TMAB-01539) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PI 3 Kinase p85 alpha) Monoclonal Antibody, Unconjugated (TMAB-01539) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.



Application: ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

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: mouse PI3K p85 Protein
Antigen Species:	Mouse
Gene ID:	18708
Uniprot ID:	P26450
Synonyms:	Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha;PI3-kinase regulatory subunit alpha;PtdIns-3-kinase regulatory subunit p85-alpha;PtdIns-3-kinase regulatory subunit alpha;PI3K regulatory subunit alpha;Phosphatidylinositol 3-kinase regulatory subunit alpha;GRB1;PI3-kinase subunit p85-alpha
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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481