Data Sheet (Cat.No.TMAC-03288)

Anti-PI 3 Kinase p55 gamma Antibody (1C282)

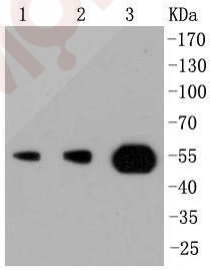
Product Details

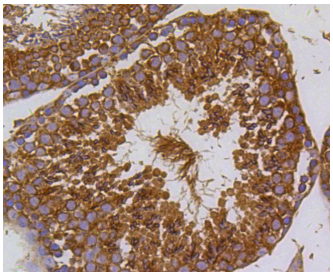
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 54 kDa.
Clone:	1C282
Purification:	ProA affinity purified

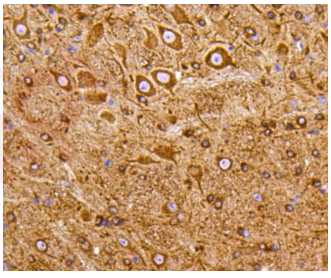
Applications

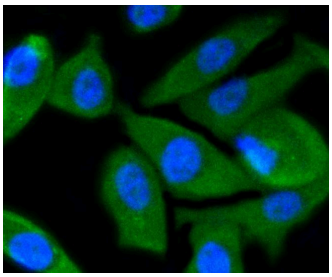
Verified Activity:

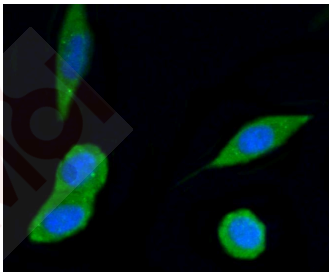
1. Western blot analysis of PI 3 Kinase p55 γ on different lysates using anti-PI 3 Kinase p55 γ antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7, Lane 2: Jurkat, Lane 3: Mouse testis.
2. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-PI 3 Kinase p55 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PI 3 Kinase p55 antibody. Counter stained with hematoxylin.
4. ICC staining PI 3 Kinase p55 γ in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining PI 3 Kinase p55 γ in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.











Application: ICC/IF,IHC,WB

Recommended: WB: 1:1000-10000; IHC: 1:200-500; ICC/IF: 1:50-200

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: Q92569

Synonyms: Phosphoinositide 3 kinase, regulatory subunit, polypeptide 3 (p55, gamma);p55PIK;PI3-kinase regulatory subunit gamma;PI3-kinase subunit p55-gamma;FLJ41892;DKFZp686P05226;Pik3r3; PI3 kinase p85 subunit gamma;Phosphatidylinositol 3-kinase regulatory subunit gamma; P55G_HUMAN;Phosphatidylinositol 3 kinase regulatory subunit polypeptide 3;PI 3 Kinase p55 γ; PI 3 Kinase p55 g;Phosphoinositide 3 kinase regulatory subunit 3;Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p55, gamma);OTTHUMP00000009783;PtdIns-3-kinase regulatory subunit p55-gamma;OTTHUMP00000009786;Phosphatidylinositol 3-kinase 55 kDa regulatory subunit gamma;Phosphoinositide 3 kinase, regulatory subunit 3 (p55, gamma);p55 gamma;Phosphatidylinositol 3 kinase regulatory subunit gamma;p55;Phosphoinositide 3 kinase regulatory subunit polypeptide 3;PtdIns-3-kinase regulatory subunit gamma;PtdIns 3 kinase p85 gamma;Phosphoinositide 3 kinase regulatory subunit 3 (gamma);PI3K regulatory subunit gamma

Research Background

Phosphatidylinositol 3-kinase is a lipid kinase that phosphorylates the inositol ring of phosphatidylinositol and related compounds at the 3?? position. PI 3-kinase p55γ (PIK3R3) is comprised of a catalytic subunit and a regulatory subunit. The human p55γ protein is composed of a rare amino terminal region followed by a proline-rich motif and two Src homology 2 (SH2) domains. PI 3-kinase p55γ mRNAs are expressed in most human fetal and adult tissues; predominant expression is observed in the adult testis. Splice variant(s) of PI 3-kinase p55γ have been identified; one of which has a deletion of 36 amino acids at the amino terminus and another which has an insertion of 59 amino acids at position 256 between the SH2 domains. Research suggests that PI 3-kinase p55γ interacts with the IGFIR (Insulin-like growth factor-I receptor) and IR (Insulin receptor) and may be involved in PI 3-kinase activation by these receptors.

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