



# Rabbit Anti-PIK3R3 monoclonal antibody, clone TS55-17 (CABT-L581)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	PI 3 Kinase p55 gamma
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	TS55-17
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC
<b>Molecular Weight</b>	54 kDa
<b>Cellular Localization</b>	Cytosol.
<b>Positive Control</b>	PC-3M, MCF-7, SH-SY-5Y, Jurkat, mouse testis tissue, mouse brain tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

**Storage**

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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## BACKGROUND

**Introduction**

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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**Keywords**

DKFZp686P05226;FLJ41892;OTTHUMP00000009783;OTTHUMP00000009786;p55;p55 gamma;P55G\_HUMAN;p55PIK;Phosphatidylinositol 3 kinase regulatory subunit gamma;Phosphatidylinositol 3 kinase regulatory subunit polypeptide 3;Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 3 (p55, gamma);Phosphatidylinositol 3-kinase 55 kDa regulatory subunit gamma;Phosphatidylinositol 3-kinase regulatory subunit gamma;Phosphoinositide 3 kinase regulatory subunit 3 (gamma);Phosphoinositide 3 kinase regulatory subunit 3;Phosphoinositide 3 kinase regulatory subunit polypeptide 3;Phosphoinositide 3 kinase, regulatory subunit 3 (p55, gamma);Phosphoinositide 3 kinase, regulatory subunit, polypeptide 3 (p55, gamma);PI3 kinase p85 subunit gamma;PI3-kinase regulatory subunit gamma;PI3-kinase subunit p55-gamma;PI3K regulatory subunit gamma;Pik3r3;PtdIns 3 kinase p85 gamma;PtdIns-3-kinase regulatory subunit gamma;PtdIns-3-kinase regulatory subunit p55-gamma antibody

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