

Mouse Anti-PI3K p85 alpha [B9]: MC0357, MC0357RTU7

Intended Use: For Research Use Only

Description: Phosphatidylinositol 3-kinase (PIK3) is a signaling protein that phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. Signaling is initiated when upstream tyrosine kinase receptors or G protein coupled receptors are bound by their ligands. It binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. During insulin stimulation, it also binds to IRS-1. Mutations in the gene can result in Agammaglobulinemia 7, SHORT syndrome, or Immunodeficiency 36.

Specifications:

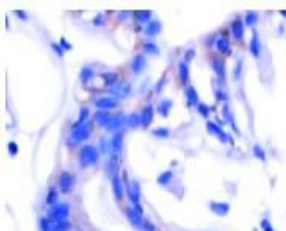
Clone: B9
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse, rat
 Immunogen: Amino acids 333-430 of N-terminus SH2 domain of human PI3K p85 alpha
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, IF, IP, WB
 Package:

Description	Catalog No.	Size
PI3K p85 alpha [B9] Concentrated	MC0357	1 ml
PI3K p85 alpha [B9] Prediluted	MC0357RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Breast tumor
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human breast tumor stained with anti- PI3K p85 alpha

References:

1. Eplerenone attenuates myocardial infarction in diabetic rats via modulation of the PI3K-Akt pathway and phosphorylation of GSK-3 β . Mahajan UB, et al. Am J Transl Res. Sep 15;10(9):2810-2821, 2018.
2. RACK1 is required for adipogenesis. Kong Q, et al. Am J Physiol Cell Physiol. 2016 Nov 1;311(5):C831-C836, 2016.
3. Bisphenol A impairs insulin signaling and glucose homeostasis and decreases steroidogenesis in rat testis: an in vivo and in silico study. D'Cruz SC, et al. Food Chem Toxicol. Mar;50(3-4):1124-33, 2012.
4. Chronic 17beta-estradiol treatment improves skeletal muscle insulin signaling pathway components in insulin resistance associated with aging. Moreno M, et al. Age (Dordr). Mar;32(1):1-13, 2010.

Doc. 100-MC0357
Rev. A