

Product Datasheet

PI3 Kinase p85 alpha (3H5) Mouse mAb

Catalog No: AB3466

Reactivity: Human, Mouse, Rat

Isotype: Mouse IgG1

Applications: WB, IHC



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Information

UniProt ID: P27986

All Names: GRB1, p85 alpha, PI3K, PIK3R1

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 85kDa

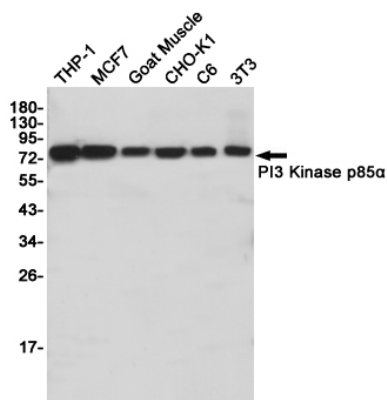
Application

WB: 1/500-1/1000

IHC: 1/50-1/200

Background

Swiss-Prot Acc.P27986. 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. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. Plays an important role in signaling in response to FGFR1, FGFR2, FGFR3, FGFR4, KITLG/SCF, KIT, PDGFRA and PDGFRB. Likewise, plays a role in ITGB2 signaling (PubMed:17626883, PubMed:19805105, PubMed:7518429). Modulates the cellular response to ER stress by promoting nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (PubMed:20348923).



Western blot detection of PI3 Kinase p85α in THP-1, MCF7, Goat Muscle, CHO-K1, C6, 3T3 cell lysates using PI3 Kinase p85α (3H5) Mouse mAb (1:1000 diluted). Predicted band size: 85KDa. Observed band size: 85KDa.

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