

Mouse PI3 Kinase, p85 Monoclonal Antibody | anti-PI3 antibody

PI3 Kinase, p85 (C-terminal region) Antibody

CATALOG # AAA71686	HOST Mouse	REACTIVITY Human, Rat, Mouse, Chicken	APPLICATIONS Immunocytochemistry, ELISA, Western Blot
------------------------------	----------------------	---	---

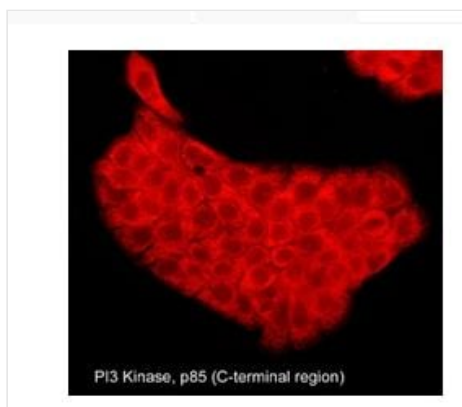
PRODUCT SYNONYMS

PI3 Kinase; p85; Monoclonal Antibody; p85 (C-terminal region) Antibody; p85 (C-terminal region); anti-PI3 antibody

PRODUCT SPECIFICATIONS

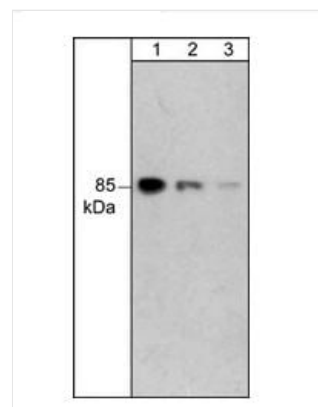
Host	Mouse
Reactivity	Human, Rat, Mouse, Chicken
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	M253
Specificity	This antibody detects an 85kDa* band corresponding to the p85 subunit of PI3 Kinase in western blots of human A431 and Jurkat cells.
Purity/Purification	Protein A chromatography
Form/Format	Mouse monoclonal antibody purified with protein A chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-PI3 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M253 was generated from a recombinant protein corresponding to amino acids in the C-terminal region of human PI3 Kinase alpha subunit. This region is homologous to similar regions in rat and mouse PI3 Kinase alpha subunit.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of PI3 Kinase p85 in aldehyde-fixed and NP-40-permeabilized A431 cells. The cells were labeled with mouse monoclonal PI3 Kinase p85 (C-terminal region) antibody (PM2531), then the antibody was detected using appropriate secondary antibody conjugated to DyLight 594.



WB (Western Blot)

Western blot image of human A431 cells. The blots were probed with mouse monoclonal anti-PI3 Kinase, p85 (C-terminal region) at 1:1000 (lane 1), 1:2000 (lane 2), and 1:4000 (lanes 3).

ADDITIONAL INFORMATION

Related Product Information for anti-PI3 antibody	Phosphoinositide 3-kinase (PI3K) phosphorylates phosphatidylinositol (PI), PI-4-phosphate and PI-4, 5-bisphosphate to catalyze the production of PI-3, 4, 5-triphosphate. Growth factors and hormones activate PI3K to coordinate various cellular events, such as cell growth, cell cycle entry, cell migration and cell survival. This PI3K activation is reversed by PTEN. In cancers caused by the loss of PTEN activity, PI3K is constitutively active and promotes cell proliferation. PI3Ks are composed of a catalytic subunit and a regulatory subunit. Various isoforms of the catalytic subunit (p110a, p110b and p110d) associate with regulatory subunits (p85a and p85b) with the exception of p110g which interacts with a unique p101 regulatory subunit.
References	Cantley, L.C. (2002) Science 296:1655. Stoyanov, B. et al. (1995) Science 269:690.

NCBI AND UNIPROT INFORMATION

NCBI GI #	335057534
NCBI GeneID	5295
NCBI Accession #	NP_001229395.1
NCBI GenBank Nucleotide #	NM_001242466.1
UniProt Accession #	P27986; Q15747; Q4VBZ7; Q53EM6; Q8IXA2; Q8N1C5; B3KT19; D3DWA0; E7EX19
Molecular Weight	83,598 Da
NCBI Official Full Name	phosphatidylinositol 3-kinase regulatory subunit alpha isoform 4
NCBI Official Synonym Full Names	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
NCBI Official Symbol	PIK3R1
NCBI Official Synonym Symbols	p85; AGM7; GRB1; p85-ALPHA
NCBI Protein Information	phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha; PI3K regulatory subunit alpha; ptdIns-3-kinase regulatory subunit alpha; phosphoinositide-3-kinase regulatory subunit; phosphatidylinositol 3-kinase-associated p-85 alph
UniProt Protein Name	Phosphatidylinositol 3-kinase regulatory subunit alpha
UniProt Gene Name	PIK3R1
UniProt Synonym Gene Names	GRB1; PI3-kinase regulatory subunit alpha; PI3K regulatory subunit alpha; PtdIns-3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha
UniProt Entry Name	P85A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.