



Anti-PIK3CA (aa 959-1068) polyclonal antibody (DPAB-DC2249)

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

PRODUCT INFORMATION

Antigen Description	Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers.
Immunogen	PIK3CA (NP_006209, 959 a.a. ~ 1068 a.a) partial recombinant protein with GST tag. The sequence is DFLIVISKGAQECTKTREFERFQEMCYKAYLAIRQHANLFINLFSMMLGSGMPELQSFDD IAYIRKTLALDKTEQEALEYFMKQMNDAAHHGGWTTKMDWIFHTIKQHALN
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name [PIK3CA phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha \[Homo sapiens](#)

[\(human\)\]](#)

Official Symbol	PIK3CA
Synonyms	PIK3CA; phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha; MCM; CWS5; MCAP; PI3K; CLOVE; MCMTC; p110-alpha; phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform; PI3K-alpha; PI3-kinase p110 subunit alpha; ptdIns-3-kinase subunit p110-alpha; serine/threonine protein kinase PIK3CA; phosphatidylinositol 3-kinase, catalytic, 110-KD, alpha; phosphoinositide-3-kinase, catalytic, alpha polypeptide; phosphatidylinositol 3-kinase, catalytic, alpha polypeptide; phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit, alpha isoform;
Entrez Gene ID	5290
Protein Refseq	NP_006209
UniProt ID	P42336
Chromosome Location	3q26.3
Pathway	3-phosphoinositide biosynthesis; AMPK signaling; AMPK signaling pathway; Acute myeloid leukemia
Function	1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; insulin receptor substrate binding