Mouse anti-Human PIK3CA Monoclonal Antibody | anti-PIK3CA antibody

PIK3CA H1047R (PT0828) Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA268577	**Mouse**	**Human**	**ELISA, Western Blot, Immunohistochemistry**

PRODUCT SYNONYMS

PIK3CA; Monoclonal Antibody; PIK3CA H1047R (PT0828) Mouse mAb; anti-PIK3CA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Specificity	This antibody detects endogenous levels of PIK3CA protein
Purity/Purification	Protein G
Form/Format	PBS, pH7.4, 50% glycerol, 0.05% Proclin 300
Sequence Length	1068
Applicable Applications for anti-PIK3CA antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	Synthesized peptide derived from human PIK3CA H1047R AA range: 1000-1068
Function	Catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate = ADP + 1-phosphatidyl-1D-myo-inositol 3,4,5-trisphosphate.,disease:Defects in PIK3CA are associated with breast cancer [MIM:114480].,disease:Defects in PIK3CA are associated with colorectal cancer (CRC) [MIM:114500].,disease:Defects in PIK3CA are associated with ovarian cancer [MIM:167000]. Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by advanced presentation with loco-regional dissemination in the peritoneal cavity and the rare incidence of visceral metastases. These typical features relate to the biology of the disease, which is a principal determinant of outcome.,disease:Defects in PIK3CA may underlie hepatocellular carcinoma (HCC) [MIM:114550].,disease:PI3KCA mutations affecting exons 9 and 20 display gender-and tissue-specific patterns
Subcellular Location	Cytoplasmic
Expression	Gastric adenocarcinoma with PIK3CA H1047R protein expression
Preparation and Storage	-15°C to -25°C/1 year (Do not lower than -25°C)

IMAGES

Application Data
Human gastric adenocarcinoma tissue was stained with Anti-PIK3CA H1047R Antibody.

SDS-PAGE
Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-PIK3CA H1047R antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Predicted band size: 124kDa Observed band size: 124kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PIK3CA antibody	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. A pseudogene of this gene has been defined on chromosome 22. [provided by RefSeq, Apr 2016].

NCBI AND UNIPROT INFORMATION

NCBI GI #	126302584
NCBI GeneID	5290
UniProt Accession #	P42336
Molecular Weight	117kD
NCBI Official Full Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
NCBI Official Synonym Full Names	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
NCBI Official Symbol	PIK3CA
NCBI Official Synonym Symbols	MCM; CWS5; MCAP; PI3K; CLAPO; CLOVE; MCMTC; PI3K-alpha; p110-alpha
NCBI Protein Information	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
UniProt Protein Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
UniProt Gene Name	**PIK3CA**
UniProt Synonym Gene Names	PI3-kinase subunit alpha; PI3K-alpha; PI3Kalpha; PtdIns-3-kinase subunit alpha; PtdIns-3-kinase subunit p110-alpha; p110alpha
UniProt Entry Name	PK3CA_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.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/pik3ca-antibody-western-blot-immunohistochemistry-elisa/268577