PIK3CA H1047R (PT0828) Mouse mAb

Catalog Number:E2252878

Amount:100ul

Applications：IHC;WB;ELISA

Reactivity：Human;

Gene Name：PIK3CA

Protein Name： 5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha;5-bisphosphate 3-kinase catalytic subunit alpha isoform;caPI3K;CLOVE;CWS5;MCAP;MCM;MCMTC;MGC142161; MGC142163; p110 alpha; p110alpha; Phosphatidylin

Human Gene Id：5290

Human Swiss Prot No：P42336

Mouse Gene Id：18706

Mouse Swiss Prot No：P42337

Rat Gene Id：170911

Immunogen：Synthesized peptide derived from human PIK3CA H1047R AA range: 1000-1068

Specificity：This antibody detects endogenous levels of PIK3CA protein

Formulation：PBS, pH7.4, 50% glycerol, 0.05% Proclin 300

Source：Mouse, Monoclonal/IgG2b, Kappa

Dilution：IHC 1:200-400, WB 500-1000, ELISA 1:5000-20000

Purification：Protein G

Storage Stability：-15°C to -25°C/1 year (Do not lower than -25°C)

Other Name：5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha;5-bisphosphate 3-kinase catalytic subunit alpha isoform;caPI3K;CLOVE;CWS5;MCAP;MCM;MCMTC;MGC142161;MGC142163;p110 alpha;p110alpha;Phosphatidylinositol 3 kinase catalytic alpha polypeptide;Phosphatidylinositol 3 kinase catalytic 110 KD alpha;Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit alpha;Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit alpha isoform;Phosphatidylinositol 4,5 bisphosphate 3 kinase 110 kDa catalytic subunit alpha;Phosphatidylinositol-4;Phosphoinositide 3 kinase catalytic alpha polypeptide;PI 3 Kinase catalytic subunit alpha;PI3 kinase p110 subunit alpha;PI3-kinase subunit alpha;PI3K;PI3K-alpha;PI3KC A;PIK3C A;Pik3ca;PK3CA;PK3CA_HUMAN; PtdIns 3 kinase p110; PtdIns-3-kinase subunit alpha;PtdIns-3-kinase subunit p110-alpha; Serine/ threonine protein kinase PIK3CA

Molecular Weight(Da)：117kD

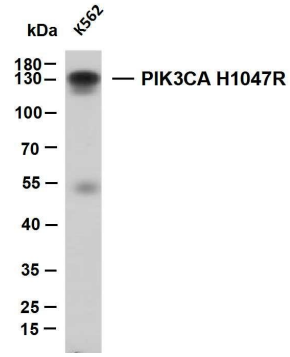
Background：Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers. A pseudogene of this gene has been defined on chromosome 22. [provided by RefSeq, Apr 2016].

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)

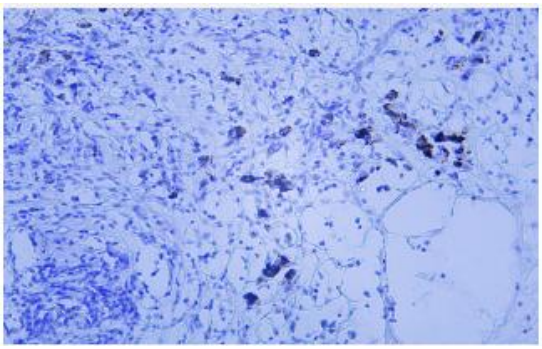
[MIM:114500].,disease:Defects in PIK3CA are associated with ovarian cancer [MIM:167000]. Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by advanced presentation with loco-regional dissemination in the peritoneal cavity and the rare incidence of visceral 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, thus suggesting that the

Subcellular Location： Cytoplasmic

Expression： Gastric adenocarcinoma with PIK3CA H1047R protein expression



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.



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