

Rabbit anti-Human PI3KCA Polyclonal Antibody | anti-PIK3CA antibody

PI3KCA Antibody (Center)

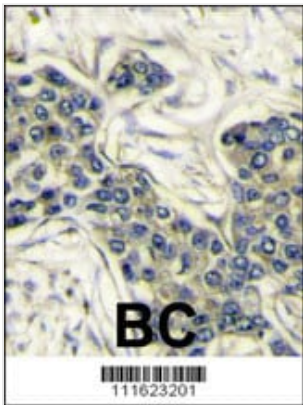
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288390	Rabbit	Human	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

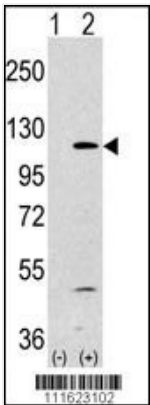
PI3KCA; Polyclonal Antibody; PI3KCA Antibody (Center); Phosphatidylinositol 4; 5-bisphosphate 3-kinase catalytic subunit alpha isoform; PI3-kinase subunit alpha; PI3K-alpha; PI3Kalpha; PtdIns-3-kinase subunit alpha; 5-bisphosphate 3-kinase 110 kDa catalytic subunit alpha; PtdIns-3-kinase subunit p110-alpha; p110alpha; Phosphoinositide-3-kinase catalytic alpha polypeptide; Serine/threonine protein kinase PIK3CA; PIK3CA; anti-PIK3CA antibody

PRODUCT SPECIFICATIONS

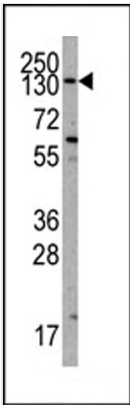
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PI3KCA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 504-533 amino acids from the Central region of human PI3KCA.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	504-533
Sequence Length	1,068
Applicable Applications for anti-PIK3CA antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human breast carcinoma reacted with PI3KCA Antibody (Center) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of anti-PI3KCA Antibody (Center) Pab in 293 cell line lysates transiently transfected with the PIK3CA gene (1ug/lane). PI3KCA (arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of anti-PIK3CA Antibody (Center) Pab in K562 cell line lysates (35ug/lane). PIK3CA (arrow) was detected using the purified Pab

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.
Product Categories/Family for anti-PIK3CA antibody	Cancer; Immunology; Signal Transduction
References	Tiwari, S. Nat Immunol. August; 10(8): 907-17 (2009). Ballou, L.M., et al., J. Biol. Chem. 278(26):23472-23479 (2003). Singh, B., et al., Genes Dev. 16(8):984-993 (2002). Shayesteh, L., et al., Nat. Genet. 21(1):99-102 (1999). Volinia, S., et al., Genomics 24(3):472-477 (1994). Hiles, I.D., et al., Cell 70(3):419-429 (1992).

NCBI AND UNIPROT INFORMATION

NCBI GI #	54792082
NCBI GeneID	5290
NCBI Accession #	NP_006209.2
NCBI GenBank Nucleotide #	NM_006218.2

UniProt Accession #	P42336; Q14CW1; Q99762
Molecular Weight	124284
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; CLOVE; MCMTc; 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/polyclonal/pi3kca-antibody-immunohistochemistry-western-blot-elisa/288390>