

## Product datasheet for **TA302178S**

### PI 3 Kinase catalytic subunit alpha (PIK3CA) Rabbit Polyclonal Antibody

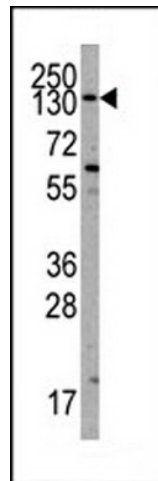
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:1000, IHC: 1:50~100
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	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.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Concentration:	lot specific
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	124284 Da
Gene Name:	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
Database Link:	<a href="#">NP_006209</a> <a href="#">Entrez Gene 5290 Human</a> <a href="#">P42336</a>
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.
Synonyms:	CLOVE; CWS5; MCAP; MCM; MCMTc; p110-alpha; PI3K; PI3K-alpha
Protein Families:	Druggable Genome

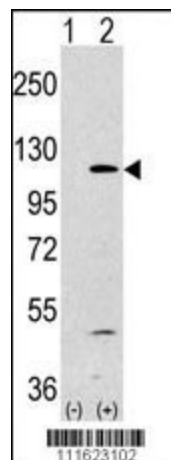

[View online »](#)

**Protein Pathways:**

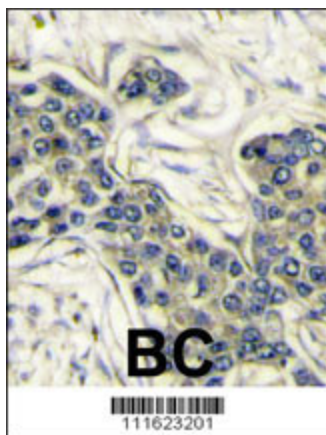
Acute myeloid leukemia, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Inositol phosphate metabolism, Insulin signaling pathway, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Phosphatidylinositol signaling system, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, VEGF signaling pathway

**Product images:**


Western blot analysis of anti-PIK3CA Antibody (Center) Pab (Cat.#[TA302178]) in K562 cell line lysates (35ug/lane). PIK3CA (arrow) was detected using the purified Pab



Western blot analysis of anti-PI3KCA Antibody (Center) Pab (Cat.#[TA302178]) in 293 cell line lysates transiently transfected with the PIK3CA gene (1ug/lane). PI3KCA (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human breast carcinoma reacted with PIK3CA Antibody (Center) (Cat.#[TA302178]), 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.