Immunotag™ P4K2A Polyclonal Antibody

Antibody Specification

Catalog No.	ITN1042
Product Description	Immunotag™ P4K2A Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	P4K2A
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human,Rat,Mouse
Host Species	Rabbit
Immunogen	Synthesized peptide derived from human protein, at AA range: 50-130
Specificity	P4K2A Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	PI4K2A
Accession No.	Q9BTU6 Q2TBE6 Q99M64
Description	phosphatidylinositol 4-kinase type 2 alpha(PI4K2A) Homo sapiens Phosphatidylinositolpolyphosphates (PtdInsPs) are centrally involved in many biologic processes, ranging from cell growth and organization of the actin cytoskeleton to endo- and exocytosis. PI4KII phosphorylates PtdIns at the D-4 position, an essential step in the biosynthesis of PtdInsPs (Barylko et al., 2001 [PubMed 11244087]).[supplied by OMIM, Mar 2008],

Antibody Specification

Protein Expression	Amygdala,Epithelium,Skin,
Subcellular Localization	mitochondrion,lysosomal membrane,endosome,Golgi apparatus,cytosol,integral component of plasma membrane,membrane,cell junction,dendrite,synaptic vesicle membrane,BLOC-1 complex,intrinsic component of memb
Protein Function	catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol = ADP + 1-phosphatidyl-1D-myo-inositol 4-phosphate.,function:Together with PI4K2B and the type III PI4Ks (PIK4CA and PIK4CB) it contributes to the overall PI4-kinase activity of the cell. The phosphorylation of phosphatidylinositol (PI) to PI4P is the first committed step in the generation of phosphatidylinositol 4,5-bisphosphate (PIP2), a precursor of the second messenger inositol 1,4,5-trisphosphate (InsP3). Contributes to the production of InsP3 in stimulated cells.,similarity:Belongs to the PI3/PI4-kinase family. Type II PI4K subfamily.,similarity:Contains 1 PI3K/PI4K domain.,subcellular location:Found in subdomains of the plasma membrane termed non-caveolar membrane rafts.,tissue specificity:Widely expressed. Highest expression is observed in kidney, brain, heart, skeletal muscle, and placenta and lowest expression is observed in colon, thymus, and small intestine.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.