

PI4KA Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22156c

Product Information

Application	WB, E
Primary Accession	P42356
Other Accession	O02811 , O08662
Reactivity	Human, Rat, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56225
Calculated MW	236830

Additional Information

Gene ID	5297
Other Names	Phosphatidylinositol 4-kinase alpha, PI4-kinase alpha, PI4K-alpha, PtdIns-4-kinase alpha, 2.7.1.67, PI4KA, PIK4, PIK4CA
Target/Specificity	This PI4KA antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1460-1490 amino acids of mouse PI4KA.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PI4KA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PI4KA
Synonyms	PIK4, PIK4CA
Function	Acts on phosphatidylinositol (PtdIns) in the first committed step in the

production of the second messenger inositol-1,4,5,- trisphosphate.

Cellular Location

Cytoplasm. Cell membrane Note=Localization to the plasma membrane is mediated by the PI4K complex and association with EFR3 (EFR3A or EFR3B), TTC7 (TTC7A or TTC7B) and HYCC (HYCC1 or HYCC2) (PubMed:23229899). Localization to the plasma membrane is regulated by TMEM150A (PubMed:25608530)

Tissue Location

Expressed ubiquitously. Highest levels in placenta and brain. Little or no expression in lung, liver, pancreas, testis or leukocytes.

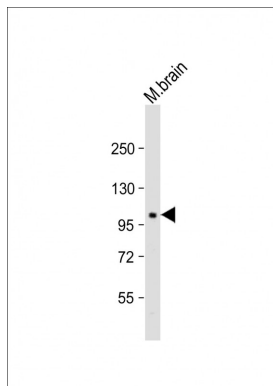
Background

Acts on phosphatidylinositol (PtdIns) in the first committed step in the production of the second messenger inositol- 1,4,5,-trisphosphate.

References

- Wong K.,et al.J. Biol. Chem. 269:28878-28884(1994).
Gehrmann T.,et al.Biochim. Biophys. Acta 1437:341-356(1999).
Dunham I.,et al.Nature 402:489-495(1999).
Daub H.,et al.Mol. Cell 31:438-448(2008).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).

Images



Anti-PI4KA Antibody (Center) at 1:2000 dilution + mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 237 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.