

Product datasheet for **AM31818PU-N**

PIP5K2 alpha (PIP4K2A) (304-366) Mouse Monoclonal Antibody [Clone ID: 3A3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3A3
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot: 1/500 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	PIP4K2A antibody was raised against pIP5K2A (NP_005019, 304 a.a. ~ 366 a.a) partial recombinant protein with GST tag.
Specificity:	This antibody reacts to PIP4K2A / PIP5K2A at aa 304-366.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phosphatidylinositol-5-phosphate 4-kinase type 2 alpha
Database Link:	Entrez Gene 5305 Human P48426



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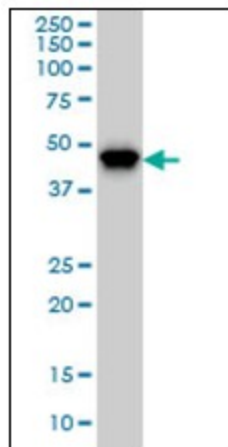
Background: Catalyzes the phosphorylation of phosphatidylinositol 5-phosphate (PtdIns5P) on the fourth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P₂). May exert its function by regulating the levels of PtdIns5P, which functions in the cytosol by increasing AKT activity and in the nucleus signals through ING2. May regulate the pool of cytosolic PtdIns5P in response to the activation of tyrosine phosphorylation.

Synonyms: PIP4KII-alpha, PIP5K2, PIP5KIII, Diphosphoinositide kinase 2-alpha, PtdIns(4)P-5-kinase B isoform, PtdIns(4)P-5-kinase C isoform, PtdIns(5)P-4-kinase isoform 2-alpha

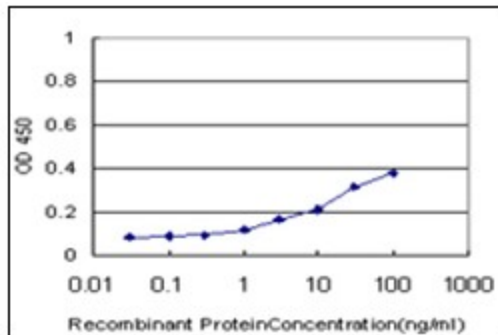
Protein Families: Druggable Genome

Protein Pathways: Inositol phosphate metabolism, Phosphatidylinositol signaling system, Regulation of actin cytoskeleton

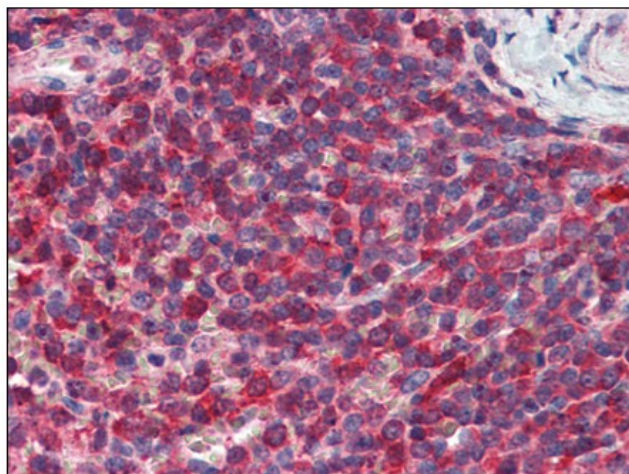
Product images:



PIP5K2A monoclonal antibody Western Blot analysis of PIP5K2A expression in K-562.



Detection limit for recombinant GST tagged PIP5K2A is approximately 3ng/ml as a capture antibody.



Human Spleen: Formalin-Fixed, Paraffin-Embedded (FFPE)