

Product datasheet for **AP01285PU-M**

Inositol Hexakisphosphate Kinase 2 (IP6K2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200 Immunohistochemistry on Paraffin sections: 1/500-1/200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 156-204 of Human IP6K2.
Specificity:	This antibody detects endogenous levels of InsP6 kinase 2 / IP6K2 protein (region surrounding Leu188).
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM Sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 52 kDa
Gene Name:	inositol hexakisphosphate kinase 2
Database Link:	Entrez Gene 51447 Human Q9UHH9



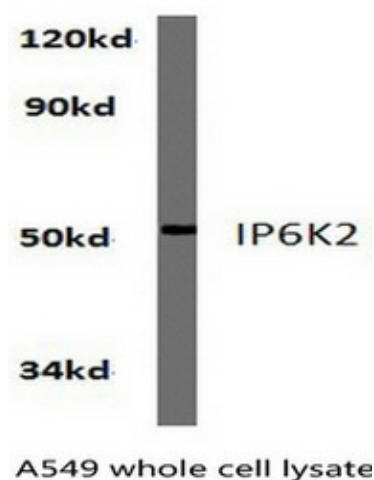
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Background:

The members of the inositol hexakisphosphate kinase family, IP6K1 and IP6K2, have a high affinity and selectivity for inositol hexakisphosphate (InsP6) as a substrate. IP6K1 and IP6K2 (also designated PiUS) convert InsP6 to PP-InsP5. However, neither kinase demonstrates any catalytic activity with other inositol pyrophosphates. The presence of InsP6, which inhibits serine/threonine protein phosphatases, increases the influx of calcium across the plasma membrane and implies that it may mediate the regulation of insulin exocytosis. IP6K1 was purified as a 54 kDa protein in rat brain extracts. By homology, IP6K1 and IP6K2 were characterized in mouse as a 50 kDa and 49 kDa protein, respectively. IP6K1 displays ATP synthase activity by transferring a phosphate from PP-InsP5 to ADP, which suggests a role for the IP6 kinases as high energy phosphate donors.

Synonyms:

IHPK2, TCCCIA00113, P(i)-uptake stimulator, PiUS

Product images:


Western blot analysis with extracts from A549 cells using InsP6 kinase 2 / IP6K2 antibody (1/500).