

Product datasheet for **AP01285PU-S**

Inositol Hexakisphosphate Kinase 2 (IP6K2) Rabbit Polyclonal Antibody

Product data:

| | |
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| 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 |



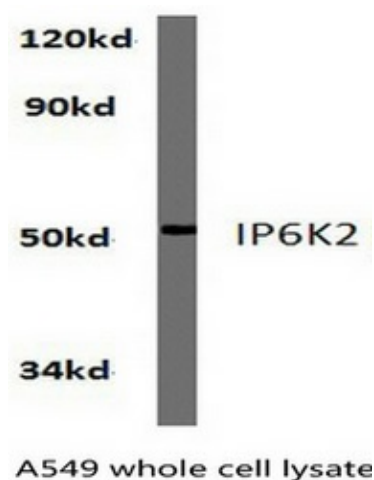
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Background:

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).