Datasheet for ABIN317720

anti-IP6K2 antibody

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Overview

Quantity:	0.1 mg
Target:	IP6K2
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IP6K2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Specificity:	This antibody detects endogenous levels of InsP6 kinase 2 / IP6K2 protein (region surrounding Leu188).
Cross-Reactivity (Details):	Species reactivity (expected):Mouse and Rat. Species reactivity (tested):Human.
Purification:	Affinity-chromatography

Target Details

Target:	IP6K2
Alternative Name:	InsP6 Kinase 2 / IP6K2 (IP6K2 Products)
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

Target Details

	(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, Inositol hexakisphosphate kinase 2, P(i)-uptake stimulator, PiUS, TCCCIA00113
Molecular Weight:	approx. 52 kDa
Gene ID:	51447
NCBI Accession:	NP_001005909
UniProt:	Q9UHH9

Application Details

Application Notes:	ELISA: 1: 40000approx. 1: 60000. WB: 1: 500approx. 1: 1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1,0 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.2, 15 mM Sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

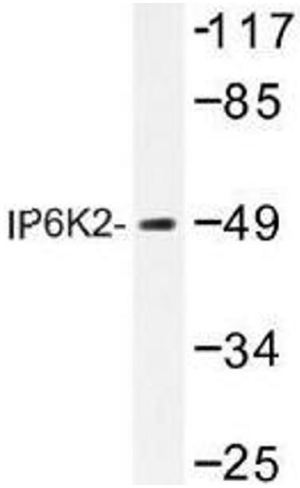

Image 1.