Datasheet for ABIN500230

anti-Transportin 1 antibody (N-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	Transportin 1 (TNPO1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Transportin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	MAPKAP1 antibody was raised against a 19 amino acid peptide from near the amino terminus of human MAPKAP1.
Isotype:	IgG
Specificity:	This antibody detects MIP1 at N-term.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	Transportin 1 (TNPO1)

Target Details

Alternative Name:	MIP1 (TNPO1 Products)
Background:	MAPKAP1 was initially identified as the human homolog of S. pombe SIN1. Recent evidence has shown that it identical to Mip1, a protein that interacts with MEKK2, a member of the mitogen-activated protein kinase (MAPK) intracellular signaling network. MAPKAP1 is thought to prevent MEKK2 activation and dimerization by forming a complex with the inactive and non-phosphorylated MEKK2, thereby blocking the JNK1/2, ERK1/2, p38 and ERK5 MAPKs. MAPKAP1 has also been shown to play a role in the TOR signaling process, a pathway that is involved in controlling cell growth and proliferation in response to environmental cues such as nutrients, growth factors and hormones. Experiments showed that MAPKAP1 helped to maintain the TOR/rictor assembly but not the TOR/RAPTOR complex, which allowed specific phosphorylation of Akt, a kinase that is believed to couple the growth factor-PI3K signaling pathway to the nutrient-regulated TOR signaling pathway. Multiple alternatively spliced isoforms of MAPKAP1 have been identified.Synonyms: MAPKAP1, Mitogen-activated protein kinase 2-associated protein 1, SAPK-interacting protein 1, SIN1, Stress-activated map kinase-interacting protein 1, TORC2 subunit MAPKAP1, Target of rapamycin complex 2 subunit MAPKAP1, mSIN1
Gene ID:	79109
NCBI Accession:	NP_001006618
UniProt:	Q9BPZ7
Pathways:	PI3K-Akt Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Cellular Glucan Metabolic Process, Protein targeting to Nucleus, CXCR4-mediated Signaling Events

Application Details

Application Notes:	ELISA. Western blot: 0.5 - 1 µg/mL. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

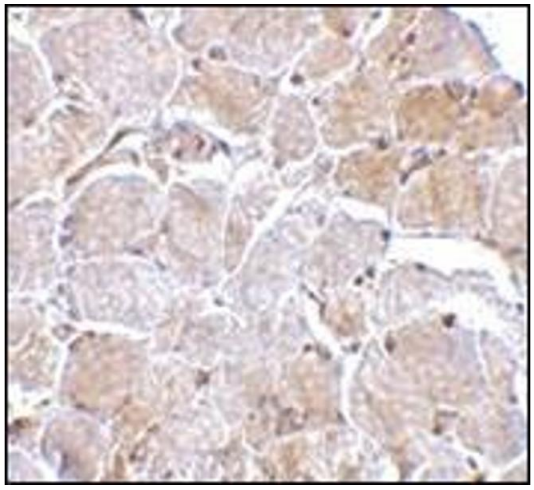
Handling

Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide

Handling

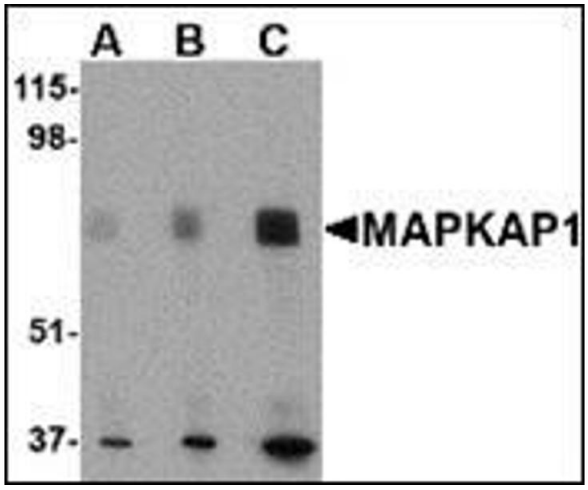
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of MAPKAP1 in human skeletal muscle tissue with this product at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of MAPKAP1 in human skeletal muscle tissue lysate with this product at (A) 0.5, (B) 1 and (C) 2 µg/ml.