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MTUS1 Rabbit pAb

Catalog # AP98533

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9ULD2
Other Accession	Q9ULD2
Reactivity	Mouse
Predicted	Rat, Human, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	141397
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MTUS1
Epitope Specificity	1151-1270/1270
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MTUS1 family.
SUBUNIT	Homodimer. Interacts with AGTR2. Interacts with PTPN6 (By similarity). Isoform 1 associates with microtubules.
DISEASE	Hepatocellular carcinoma (HCC) [MIM:114550]: A primary malignant neoplasm of epithelial liver cells. The major risk factors for HCC are chronic hepatitis B virus (HBV) infection, chronic hepatitis C virus (HCV) infection, prolonged dietary aflatoxin exposure, alcoholic cirrhosis, and cirrhosis due to other causes. Note=The gene represented in this entry may be involved in disease pathogenesis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein which contains a C-terminal domain able to interact with the angiotension II (AT2) receptor and a large coiled-coil region allowing dimerization. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. One of the transcript variants has been shown to encode a mitochondrial protein that acts as a tumor suppressor and partcipates in AT2 signaling pathways. Other variants may encode nuclear or transmembrane proteins but it has not been determined whether they also participate in AT2 signaling pathways. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	57509
Other Names	ATBP; ATIP; ATIP3; ICIS; MP44; MTSG1; ATBP135; Atip1; B430010I23Rik; B430305I03Rik; Cctsg1-440; MD44; mKIAA1288; ATIP4; Atip3b; MTUS1_HUMAN; MTUS1; AT2 receptor-binding protein; Angiotensin-II type 2 receptor-interacting protein; Mitochondrial tumor suppressor 1; GK1;

	KIAA1288; MTUS1_MOUSE; Coiled-coiled tumor suppressor gene 1 protein; Mitochondrial tumor suppressor 1 homolog; Cctsg1; MTUS1_RAT; microtubule associated scaffold protein 1; microtubule associated tumor suppressor 1; AT2 receptor-interacting protein; AT2R binding protein; mitochondrial tumor suppressor gene 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MTUS1
Synonyms	ATBP, ATIP, GK1, KIAA1288, MTSG1
Function	Cooperates with AGTR2 to inhibit ERK2 activation and cell proliferation. May be required for AGTR2 cell surface expression. Together with PTPN6, induces UBE2V2 expression upon angiotensin-II stimulation. Isoform 1 inhibits breast cancer cell proliferation, delays the progression of mitosis by prolonging metaphase and reduces tumor growth.
Cellular Location	Mitochondrion. Golgi apparatus. Cell membrane. Nucleus. Note=In neurons, translocates into the nucleus after treatment with angiotensin-II.
Tissue Location	Ubiquitously expressed (at protein level). Highly expressed in brain. Down-regulated in ovarian carcinoma, pancreas carcinoma, colon carcinoma and head and neck squamous cell carcinoma (HNSCC). Isoform 1 is the major isoform in most peripheral tissues Isoform 2 is abundant in most peripheral tissues. Isoform 3 is the major isoform in brain, female reproductive tissues, thyroid and heart Within brain it is highly expressed in corpus callosum and pons Isoform 6 is brain-specific, it is the major isoform in cerebellum and fetal brain.

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