

Rabbit Anti-MTUS1/Angiotensin II Type 2 Receptor/Cy5 Conjugated antibody

SL6076R-Cy5

Product Name	Anti-MTUS1/Angiotensin II Type 2 Receptor/Cy5
Chinese Name	Cy5 标记的血管紧张素II2 型受体相互作用蛋白抗体
Alias	Angiotensin II type 2 receptor interacting protein; AT2 receptor interacting protein; AT2R binding protein; ATIP; ATIP1; Erythroid differentiation related; FLJ14295; GK 1; GK1; KIAA1288; Microtubule associated tumor suppressor 1; Mitochondrial tumor suppressor 1; Mitochondrial tumor suppressor gene 1; MP 44; MP44; MTSG 1; MTSG1; MTUS 1; Transcription factor MTSG1; MTUS1_HUMAN.
Research Area	Tumour Cell biology immunology Chromatin and nuclear signals Mitochondrion
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Chicken,Dog,Cow,Horse,Rabbit) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	141kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human MTUS1.
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background:

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 participates 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].

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.

Subunit:

Homodimer. Interacts with AGTR2. Interacts with PTPN6 (By similarity). Isoform 1 associates with microtubules.

Subcellular Location:

Mitochondrion. Golgi apparatus (By similarity). Cell membrane (By similarity). Nucleus (By similarity). Note=In neurons, translocates into the nucleus after treatment with angiotensin-II (By similarity).

Isoform 1: Cytoplasm, cytoskeleton, centrosome. Cytoplasm, cytoskeleton, spindle. Note=Localizes with the mitotic spindle during mitosis and with the intercellular bridge during cytokinesis.

Tissue Specificity:

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.

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.

Similarity:

Belongs to the MTUS1 family.

Database links:

[Entrez Gene: 482896](#) Dog

[Entrez Gene: 57509](#) Human

[Entrez Gene: 102103](#) Mouse

[Entrez Gene: 306487](#) Rat

[Omim: 609589](#) Human

[SwissProt: Q9ULD2](#) Human

[SwissProt: Q5HZI1](#) Mouse

[SwissProt: Q6IMY1](#) Rat

[Unigene: 7946](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.