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[Marker Primary Antibody]

Rabbit Anti-MTUS1/Angiotensin II Type 2 Receptor/Cy3 Conjugated antibody

Catalog Number: SL6076R-Cy3

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-MTUS1/Angiotensin II Type 2 Receptor/Cy3
Immunogen:	KLH conjugated synthetic peptide derived from human MTUS1.
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Chicken,Dog,Cow,Horse,Rabbit)
Background:	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 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]. **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

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	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.