10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MTUS1 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22015a

Product Information

Application	WB, E
Primary Accession	Q9ULD2
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54731
Calculated MW	141397

Additional Information

Gene ID	57509
Other Names	Microtubule-associated tumor suppressor 1, AT2 receptor-binding protein, Angiotensin-II type 2 receptor-interacting protein, Mitochondrial tumor suppressor 1, MTUS1, ATBP, ATIP, GK1, KIAA1288, MTSG1
Target/Specificity	This MTUS1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 183-226 amino acids from human MTUS1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MTUS1 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

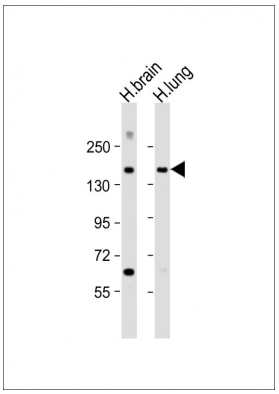
Background

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.

References

Kinjo T.,et al.J. Hum. Genet. 45:12-17(2000).
Seibold S.,et al.FASEB J. 17:1180-1182(2003).
Nouet S.,et al.J. Biol. Chem. 279:28989-28997(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

Images



All lanes : Anti-MTUS1 Antibody (N-Term) at 1:2000 dilution Lane 1: human brain lysate Lane 2: human lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 141 kDa Blocking/Dilution buffer: 5% NFDM/TBST.