

### MTUS1 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP22015a

## Specification

# MTUS1 Antibody (N-Term) - Product Information

WB,E
<u>Q9ULD2</u>
Human
Rabbit
polyclonal
Rabbit IgG

# MTUS1 Antibody (N-Term) - 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.

# MTUS1 Antibody (N-Term) - 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 detal brain.

# MTUS1 Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# MTUS1 Antibody (N-Term) - 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.



# MTUS1 Antibody (N-Term) - 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.

# MTUS1 Antibody (N-Term) - 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).