For Research Use Only

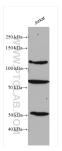
## MTUS1 Polyclonal antibody Catalog Number:13436-1-AP Featured Product 4

Featured Product 4 Publications

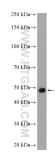


| Basic Information                                   | Catalog Number:<br>13436-1-AP  | GenBank Accession Number:<br>BC033842   | Purification Method:<br>Antigen affinity purification   |  |
|---|--|---|---|--|
|   | Size:  | GenelD (NCBI):  | Recommended Dilutions:  |  |
|   | 150ul , Concentration: 850 ug/ml by  | 57509   | WB 1:500-1:1000   |  |
|   | Nanodrop and 330 ug/ml by Bradford method using BSA as the standard;   | UNIPROT ID:<br>Q9ULD2   | IP 0.5-4.0 ug for 1.0-3.0 mg of total<br>protein lysate   |  |
|   | Source:<br>Rabbit  | Full Name:<br>mitochondrial tumor suppres   | IHC 1:300-1:1200<br>IF/ICC 1:20-1:200<br>ssor 1   |  |
|   | lsotype:<br>IgG  | Calculated MW:<br>51 kDa, 141 kDa   |   |  |
|   | Immunogen Catalog Number:Observed MW:AG424240-48 kDa, 80 kDa, 110-120280 kDa   |   | kDa, 270-   |  |
|   |  |   |   |  |
| Applications  | Tested Applications:<br>WB, IHC, IF/ICC, IP, ELISA   |   | Positive Controls:  |  |
|   | Cited Applications:  |   | Jurkat cells, K-562 cells, human brain tissue,<br>se brain tissue   |  |
|   | WB, CoIP, IF   | IP:m  | ouse brain tissue,  |  |
|   | Species Specificity:<br>human, mouse, rat  |   | human breast cancer tissue, human thyroid<br>er tissue  |  |
|   | Cited Species:<br>human, mouse   | IF/IC   | C : PC-3 cells,   |  |
|   | Note-IHC: suggested antigen retrieval with<br>TE buffer pH 9.0; (*) Alternatively, antigen<br>retrieval may be performed with citrate<br>buffer pH 6.0   |   |   |  |
|   |  |   |   |  |
| Background Information                              | AGTR2 to inhibit ERK2 activation and<br>Together with PTPN6, induces UBE2V<br>cell proliferation, delays the progress<br>regulation during cellular transition f<br>suppressor gene located at chromoso<br>intracellular localization, MTUS1 also<br>common to all ATIP members is the p<br>hetero-dimerization of these proteins  | cell proliferation. MTUS1 may<br>2 expression upon angiotensi<br>sion of mitosis by prolonging i<br>from proliferation to quiescen<br>me 8p21.3.22, near marker D8<br>o named as mitochondrial turr<br>presence of a large C-terminal<br>5. (PMID:12692079, 15123706)   | n-II stimulation. Isoform 1 inhibits breast cance<br>metaphase and reduces tumor growth. MTUS1 u<br>ce and differentiation. It is a potential tumor<br>85254. According to the functional data and  |  |
|   | AGTR2 to inhibit ERK2 activation and<br>Together with PTPN6, induces UBE2V<br>cell proliferation, delays the progress<br>regulation during cellular transition f<br>suppressor gene located at chromoso<br>intracellular localization, MTUS1 also<br>common to all ATIP members is the p<br>hetero-dimerization of these proteins<br>expect isoform 5(85-90 kDa). The ant  | cell proliferation. MTUS1 may<br>2 expression upon angiotensi<br>sion of mitosis by prolonging i<br>from proliferation to quiescen<br>me 8p21.3.22, near marker D8<br>o named as mitochondrial turr<br>presence of a large C-terminal<br>5. (PMID:12692079, 15123706)   | y be required for AGTR2 cell surface expression<br>n-II stimulation. Isoform 1 inhibits breast cance<br>metaphase and reduces tumor growth. MTUS1 u<br>ce and differentiation. It is a potential tumor<br>85254. According to the functional data and<br>nor suppressor gene 1 (MTSG1). One main featu<br>coiled-coil domain that allows homo- and<br>. The antibody can recognize all the isoforms   |  |
|   | AGTR2 to inhibit ERK2 activation and<br>Together with PTPN6, induces UBE2V<br>cell proliferation, delays the progress<br>regulation during cellular transition f<br>suppressor gene located at chromoso<br>intracellular localization, MTUS1 also<br>common to all ATIP members is the p<br>hetero-dimerization of these proteins<br>expect isoform 5(85-90 kDa). The ant<br>Author Put  | cell proliferation. MTUS1 may<br>2 expression upon angiotensi<br>sion of mitosis by prolonging r<br>from proliferation to quiescen<br>me 8p21.3.22, near marker D8<br>o named as mitochondrial turr<br>presence of a large C-terminal<br>s. (PMID:12692079, 15123706)<br>ibody tested HomoDimer isof  | y be required for AGTR2 cell surface expression<br>n-II stimulation. Isoform 1 inhibits breast cance<br>metaphase and reduces tumor growth. MTUS1 u<br>ce and differentiation. It is a potential tumor<br>85254. According to the functional data and<br>nor suppressor gene 1 (MTSG1). One main featu<br>coiled-coil domain that allows homo- and<br>. The antibody can recognize all the isoforms<br>orms (80kd/110-120/280kd) in Jurkat cell.                                      |  |
|   | AGTR2 to inhibit ERK2 activation and<br>Together with PTPN6, induces UBE2V<br>cell proliferation, delays the progress<br>regulation during cellular transition f<br>suppressor gene located at chromoso<br>intracellular localization, MTUS1 also<br>common to all ATIP members is the p<br>hetero-dimerization of these proteins<br>expect isoform 5(85-90 kDa). The ant<br>Author Put<br>Ruili Dang 345  | cell proliferation. MTUS1 may<br>2 expression upon angiotensi<br>ision of mitosis by prolonging i<br>rom proliferation to quiescen<br>me 8p21.3.22, near marker D8<br>o named as mitochondrial turr<br>presence of a large C-terminal<br>5. (PMID:12692079, 15123706)<br>ibody tested HomoDimer isof  | y be required for AGTR2 cell surface expression<br>n-II stimulation. Isoform 1 inhibits breast cance<br>metaphase and reduces tumor growth. MTUS1 u<br>ce and differentiation. It is a potential tumor<br>85254. According to the functional data and<br>for suppressor gene 1 (MTSG1). One main featu<br>coiled-coil domain that allows homo- and<br>. The antibody can recognize all the isoforms<br>orms (80kd/110-120/280kd) in Jurkat cell.<br>Application<br>WB                 |  |
|   | AGTR2 to inhibit ERK2 activation and<br>Together with PTPN6, induces UBE2V<br>cell proliferation, delays the progress<br>regulation during cellular transition f<br>suppressor gene located at chromoso<br>intracellular localization, MTUS1 also<br>common to all ATIP members is the p<br>hetero-dimerization of these proteins<br>expect isoform 5(85-90 kDa). The ant<br>Author Put<br>Ruili Dang 345<br>Yinfang Wang 277  | cell proliferation. MTUS1 may<br>2 expression upon angiotensi<br>ion of mitosis by prolonging i<br>rom proliferation to quiescen<br>me 8p21.3.22, near marker D8<br>on named as mitochondrial turn<br>presence of a large C-terminal<br>s. (PMID:12692079, 15123706)<br>ibody tested HomoDimer isof<br>pred ID Journal<br>529881 Aging Cell   | y be required for AGTR2 cell surface expression<br>n-II stimulation. Isoform 1 inhibits breast cance<br>metaphase and reduces tumor growth. MTUS1 u<br>ce and differentiation. It is a potential tumor<br>85254. According to the functional data and<br>for suppressor gene 1 (MTSG1). One main featu<br>coiled-coil domain that allows homo- and<br>. The antibody can recognize all the isoforms<br>orms (80kd/110-120/280kd) in Jurkat cell.<br>Application<br>WB                 |  |
| Background Information Notable Publications Storage | AGTR2 to inhibit ERK2 activation and<br>Together with PTPN6, induces UBE2V<br>cell proliferation, delays the progress<br>regulation during cellular transition f<br>suppressor gene located at chromoso<br>intracellular localization, MTUS1 also<br>common to all ATIP members is the p<br>hetero-dimerization of these proteins<br>expect isoform 5(85-90 kDa). The ant<br>Author Put<br>Ruili Dang 345<br>Yinfang Wang 277  | cell proliferation. MTUS1 may<br>2 expression upon angiotensi<br>ion of mitosis by prolonging i<br>rom proliferation to quiescen<br>me 8p21.3.22, near marker DE<br>o named as mitochondrial tur<br>presence of a large C-terminal<br>c. (PMID:12692079, 15123706)<br>ibody tested HomoDimer isof<br>omed ID Journal<br>529881 Aging Cell<br>789289 J Mol Cell Cel<br>558204 FASEB J<br>er shipment.                                | y be required for AGTR2 cell surface expression<br>n-II stimulation. Isoform 1 inhibits breast cance<br>metaphase and reduces tumor growth. MTUS1 u<br>ce and differentiation. It is a potential tumor<br>S254. According to the functional data and<br>nor suppressor gene 1 (MTSG1). One main featur<br>coiled-coil domain that allows homo- and<br>. The antibody can recognize all the isoforms<br>orms (80kd/110-120/280kd) in Jurkat cell.<br>Application<br>WB<br>ardiol WB,IF |  |
| Notable Publications                                | AGTR2 to inhibit ERK2 activation and<br>Together with PTPN6, induces UBE2V<br>cell proliferation, delays the progress<br>regulation during cellular transition f<br>suppressor gene located at chromoso<br>intracellular localization, MTUS1 also<br>common to all ATIP members is the p<br>hetero-dimerization of these proteins<br>expect isoform 5(85-90 kDa). The ant<br>Author Put<br>Ruili Dang 345<br>Yinfang Wang 277<br>Yinfang Wang 295<br>Storage:<br>Storage Storage | cell proliferation. MTUS1 may<br>2 expression upon angiotensi<br>ion of mitosis by prolonging i<br>rom proliferation to quiescen<br>me 8p21.3.22, near marker DE<br>o named as mitochondrial tur<br>presence of a large C-terminal<br>s. (PMID:12692079, 15123706)<br>ibody tested HomoDimer isof<br>omed ID Journal<br>529881 Aging Cell<br>789289 J Mol Cell Ca<br>558204 FASEB J<br>er shipment.<br>% glycerol pH 7.3.<br>torage | y be required for AGTR2 cell surface expression<br>n-II stimulation. Isoform 1 inhibits breast cance<br>metaphase and reduces tumor growth. MTUS1 u<br>ce and differentiation. It is a potential tumor<br>S254. According to the functional data and<br>nor suppressor gene 1 (MTSG1). One main featur<br>coiled-coil domain that allows homo- and<br>. The antibody can recognize all the isoforms<br>orms (80kd/110-120/280kd) in Jurkat cell.<br>Application<br>WB<br>ardiol WB,IF |  |

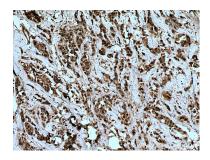
## Selected Validation Data



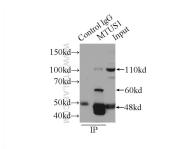
Jurkat lysates were subjected to SDS PAGE followed by western blot with 13436-1-AP (MTUS1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



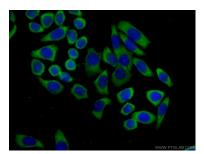
mouse brain tissue were subjected to SDS PAGE followed by western blot with 13436-1-AP (MTUS1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 13436-1-AP (MTUS1 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-MTUS1 (IP:13436-1-AP, 4ug; Detection:13436-1-AP 1:500) with mouse brain tissue lysate 6000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using 13436-1-AP (MTUS1 antibody) at dilution of 1:50 and Alexa Fluor 488conjugated Goat Anti-Rabbit IgG(H+L).