

MTUS1 Polyclonal Antibody

Catalog number: 13436-1-AP

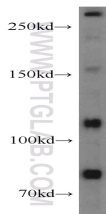
Size: 20 µg/150 µl

Source: Rabbit

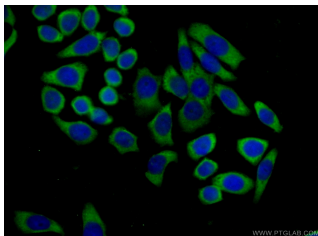
Isotype: IgG

Synonyms:

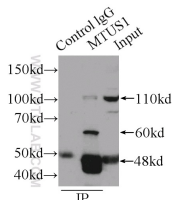
MTUS1; AT2 receptor binding protein, ATBP, ATIP, DKFZp586D1519, DKFZp686F20243, FLJ14295, GK1, KIAA1288, MP44, MTSG1, MTUS1



Jurkat cells were subjected to SDS PAGE followed by western blot with 13436-1-AP(MTUS1 antibody) at dilution of 1:500



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



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

Background

MTUS1, also named as ATBP, ATIP, GK1, KIAA1288 and MTSG1, Belongs to the MTUS1 family. It cooperates with AGTR2 to inhibit ERK2 activation and cell proliferation. MTUS1 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 up-regulation during cellular transition from proliferation to quiescence and differentiation. It is a potential tumor suppressor gene located at chromosome 8p21.3.22, near marker D8S254. According to the functional data and intracellular localization, MTUS1 also named as mitochondrial tumor suppressor gene 1 (MTSG1). One main feature common to all ATIP members is the presence of a large C-terminal coiled-coil domain that allows homo- and hetero-dimerization of these proteins. (PMID:12692079, 15123706) The antibody can recognize all the isoforms except isoform 5 (85-90kd). The antibody tested HomoDimer isoforms (80kd/110-120/280kd) in Jurkat cell.

Applications

Tested applications:	ELISA, WB, IP, IF
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated MTUS1 MW:	51 kDa, 141 kDa
Observed MTUS1 MW:	40 kDa, 80 kDa, 110-120 kDa, 270-280 kDa
Positive WB detected in	Jurkat cells, human brain tissue, K-562 cells, PC-3 cells
Positive IP detected in	Mouse brain tissue
Positive IF detected in	PC-3 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4242
GenBank accession number:	BC033842
Gene ID (NCBI):	57509
Full name:	Mitochondrial tumor suppressor 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.