For Research Use Only

MFN2 Polyclonal antibody

Catalog Number:12186-1-AP

Featured Product

294 Publications



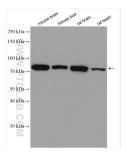
| Basic Information | Catalog Number: 12186-1-AP | ENSEMBL Gene ID: ENSG00000116688 UNIPROT ID: O95140 Full Name: | | Purification Method: Antigen affinity purification | | | |
|--|---|--|--|---|----------------------------------|--------------|--|
| | Size: 150ul , Concentration: 500 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG2845 | | | Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 | | | |
| | | | | | mitofusin 2 | | |
| | | | | | Calculated MW: 757 aa, 86 kDa | | |
| | | | | | Observed MW: 86 kDa | | |
| | | Applications | Tested Applications: IP, IHC, ELISA | | Positive Controls: | | |
| | | | Cited Applications: IP, IF, IHC, CoIP | WB : mouse brain tissue, HeLa cells, mouse kidney tissue, rat brain tissue, rat heart tissue, mouse liver tissue, rat kidney tissue, rat liver tissue | | | |
| | | | | | IP : mouse kid | lney tissue, | |
| | | | colon cancer tissue, | | | | |
| Cited Species: human, goat, chicken, rat, mouse, zebrafish, pig, duck, bovine | | | | | | | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | | | | | | |
| Background Information | MFN2, also named as CPRP1 and KIAAO214, belongs to the mitofusin family. It is an Essential transmembrane GTPase, which mediates mitochondrial fusion. MFN2 acts independently of the cytoskeleton. It therefore plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes. Overexpression of MFN2 induces the formation of mitochondrial networks. It plays an important role in the regulation of vascular smooth muscle cell proliferation. Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 2A2 (CMT2A2). Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 6 (CMT6). Ubiquitinated forms of Mfn2 (mono- and polyubiquitinated) are present during mitophagy. | | | | | | |
| Notable Publications | Author Put | med ID Journal | l | Application | | | |
| | Maria Manczak 276 | 677309 Hum M | ol Genet | IF | | | |
| | Na Jiang 329 | 75326 Cell Pro | olif | IHC | | | |
| | Siwen Li 289 | 57766 Chemo | sphere | | | | |
| Storage | Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage | | | | | | |
| *** 20ul sizes contain 0.1% BSA | Audaoung is unnecessary for -20 C S | itorage | | | | | |
| For technical support and original validation dat | ta for this product please contact: | TI | This product is exclusively available under Proteinte Group brand and is not available to purchase from a | | | | |

in USA), or 1(312) 455-8498 (outside USA)

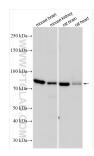
:: proteintech@ptglab.com W: ptglab.com

and is not available to purchase from any oup branc other manufacturer.

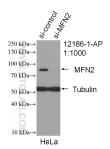
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12186-1-AP (MFN2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



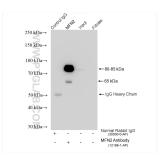
Various lysates were subjected to SDS PAGE followed by western blot with 12186-1-AP (MFN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of MFN2 antibody (12186-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MFN2 transfected HeLa cells.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 12186-1-AP (MFN2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-MFN2 (IP:12186-1-AP, 4ug; Detection:12186-1-AP 1:10000) with mouse kidney tissue lysate 2160 ug.