For Research Use Only

MFN2 Recombinant antibody

Catalog Number:82673-2-RR



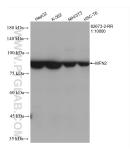
| Basic Information | Catalog Number: 82673-2-RR | GenBank Accession Number: BC017061 Genel D (NCBI): 9927 | | Purification Method: Protein A purification |
|-------------------|--|--|---|---|
| | Size: 1000 ug/ml Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG2845 | | | CloneNo.: 2A5 |
| | | ENSEMBL Gene ID: ENSG00000116688 | | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:50-1:500 |
| | | UNIPROT ID: 095140 | | |
| | | Full Name: mitofusin 2 | | |
| | | Calculated MW: 757 aa, 86 kDa | | |
| | | Observed MW: 86 kDa | | |
| Applications | Tested Applications: WB, IHC, IF/ICC, ELISA Species Specificity: human, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | Positive Controls: WB : HepG2 cells, K-562 cells, NIH/3T3 cells, HSC-T6 cells | |
| | | | | |
| | | | IF/ICC : HepG2 cells, | |
| | | | Background Information | Mitofusin-2 (MFN2), a mitochondrial membrane protein, is a dynamin-like GTPase embedded in the outer mitochondrial membrane (OMM) which plays a central role in regulating mitochondrial fusion and cell metabolisr (PMID: 35399520; 34026850). There are two human mitofusin isoforms MFN1 and MFN2, MFN1 and MFN2 mediate outer membrane fusion, OPA1 is involved in inner membrane fusion, and DRP1 is responsible for mitochondrial fission (PMID: 17084350; 35399520). It has been shown that MFN2 participates in multiple cellular biological processes under physical and pathological conditions. Apart from mitochondria fusion, MFN2 is also involved in mitochondrial-ER contacts (MERCs), mitophagy, cellular apoptosis, and proliferation (PMID: 34026850). |
| Storage | Storage: Store at -20°C. Stable for one year | after shipment. | | |

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

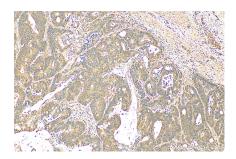
Selected Validation Data

temperature for 1.5 hours.

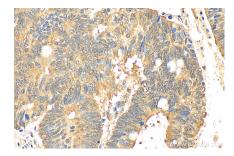




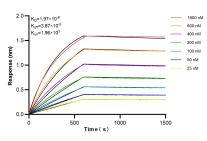
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MFN2 antibody (82673-2-RR, Clone: 2A5) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Various lysates were subjected to SDS PAGE followed by western blot with 82673-2-RR (MFN2 antibody) at dilution of 1:10000 incubated at room



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 82673-2-RR (MFN2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 82673-2-RR (MFN2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 82673-2-RR against Human MFN2 were performed. The affinity constant is 19.7 nM.