Anti-MFN2 Polyclonal Antibody

Cat: K110396P

Summary:

【**Product name**】: Anti-MFN2 antibody

【**Source**】: Rabbit

【**Isotype**】: IgG

【**Species reactivity**】: Human Mouse Rat

【**Swiss Prot**】: O95140

【**Gene ID**】: 9927

【**Calculated**】: MW:50/86kDa

【**Purification**】: Affinity purification

【**Tested applications**】: IHC

【**Recommended dilution**】: IHC 1:100-300.

【**IHC Positive sample**】: Human colorectal cancer

【**Subcellular location**】: Cytoplasm

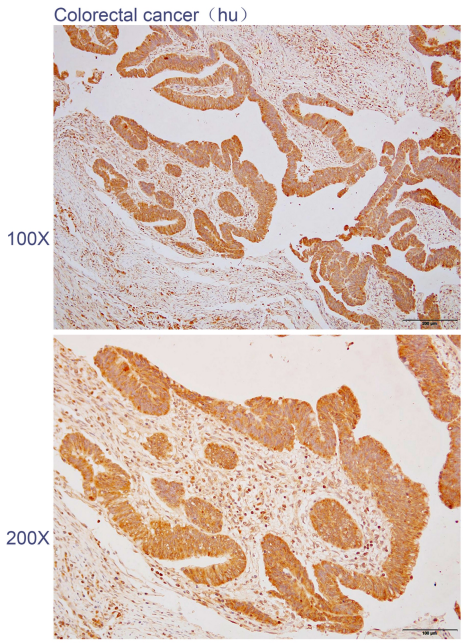
【**Immunogen**】: Recombinant protein of human MFN2

【**Storage**】: Shipped at 4°C. Upon delivery aliquot and store at -20°C

Background:

Mitochondrial outer membrane GTPase that mediates mitochondrial clustering and fusion. Mitochondria are highly dynamic organelles, and their morphology is determined by the equilibrium between mitochondrial fusion and fission events. Overexpression induces the formation of mitochondrial networks. Membrane clustering requires GTPase activity and may involve a major rearrangement of the coiled coil domains (Probable). Plays a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes. Plays an important role in the regulation of vascular smooth muscle cell proliferation. Involved in the clearance of damaged mitochondria via selective autophagy (mitophagy). Is required for PRKN recruitment to dysfunctional mitochondria. Involved in the control of unfolded protein response (UPR) upon ER stress including activation of apoptosis and autophagy during ER stress. Acts as an upstream regulator of EIF2AK3 and suppresses EIF2AK3 activation under basal conditions.

Verified picture



Immunohistochemistry of paraffin-embedded Human colorectal cancer using MFN2 antibody diluted at 1:200

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