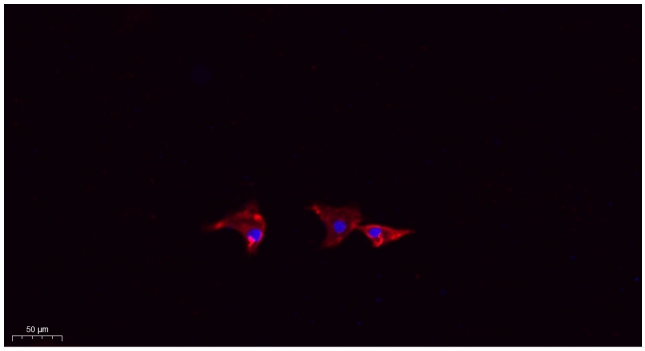
Mfn2 Polyclonal Antibody

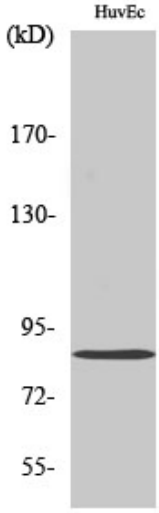
Catalog No	BYab-02675
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	MFN2
Protein Name	Mitofusin-2
Immunogen	The antiserum was produced against synthesized peptide derived from human Mfn2. AA range:354-403
Specificity	Mfn2 Polyclonal Antibody detects endogenous levels of Mfn2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. IF 1:100-300 Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MFN2; CPRP1; KIAA0214; Mitofusin-2; Transmembrane GTPase MFN2
Observed Band	86kD
Cell Pathway	Mitochondrion outer membrane ; Multi-pass membrane protein . Colocalizes with BAX during apoptosis. .
Tissue Specificity	Ubiquitous; expressed at low level. Highly expressed in heart and kidney.
Function	catalytic activity:GTP + H(2)O = GDP + phosphate.,disease:Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 2A2 (CMT2A2) [MIM:609260]. CMT2A2 is a form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT2 group are characterized by signs of axonal regeneration in the absence of obvious myelin alterations, normal or slightly reduced nerve conduction velocities, and progressive distal muscle weakness and atrophy.,disease:Defects in MFN2 are the cause of Charcot-Marie-Tooth disease type 6 (CMT6) [MIM:601152]; also

	referred to as autosomal dominant hereditary motor and sensory n
Background	This gene encodes a mitochondrial membrane protein that participates in mitochondrial fusion and contributes to the maintenance and operation of the mitochondrial network. This protein is involved in the regulation of vascular smooth muscle cell proliferation, and it may play a role in the pathophysiology of obesity. Mutations in this gene cause Charcot-Marie-Tooth disease type 2A2, and hereditary motor and sensory neuropathy VI, which are both disorders of the peripheral nervous system. Defects in this gene have also been associated with early-onset stroke. Two transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

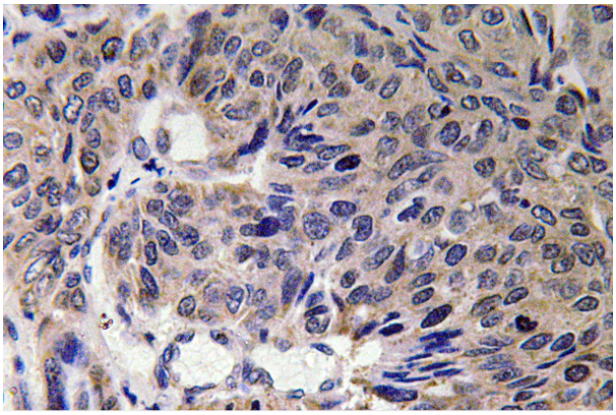
Products Images



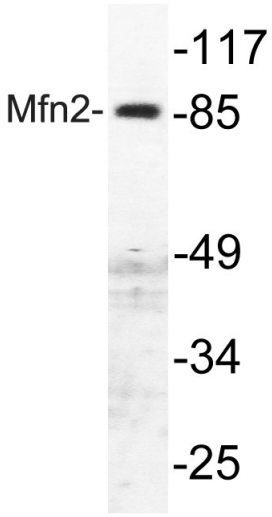
Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



Western Blot analysis of various cells using Mfn2 Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of Mfn2 antibody in paraffin-embedded human lung carcinoma tissue.



Western blot analysis of lysate from HUVEC cells, using Mfn2 antibody.