Best Tools for immunology Research

Lamin B1 Monoclonal Antibody(7C11)

Catalog No :	YM3036
Reactivity :	Human;Rat;Mouse
Applications :	WB;IHC;IF;IP
Target :	Lamin B1
Fields :	>>Apoptosis
Gene Name :	LMNB1
Protein Name :	Lamin-B1
Human Gene Id :	4001
Human Swiss Prot No :	P20700
Mouse Gene Id :	16906
Mouse Swiss Prot No :	P14733
Rat Gene Id :	116685
Rat Swiss Prot No :	P70615
Immunogen :	Recombinant Protein of Lamin-B1
Specificity :	The antibody detects endogenous Lamin B1 protein.
Formulation :	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source :	Monoclonal, Mouse
Dilution :	WB 1:2000-5000 IP:1:200 IF 1:200 IHC 1:50-300

Purification : The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 68kD

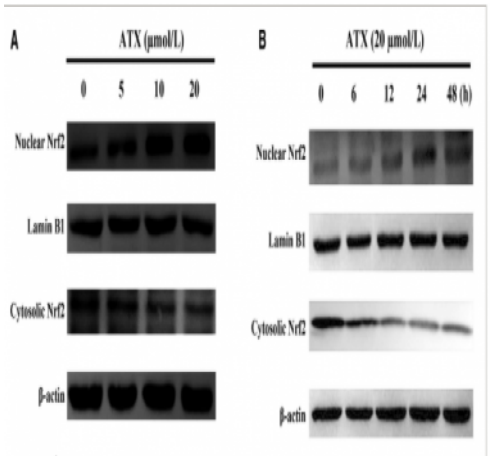
Background : lamin B1(LMNB1) Homo sapiens This gene encodes one of the two B-type lamin proteins and is a component of the nuclear lamina. A duplication of this gene is associated with autosomal dominant adult-onset leukodystrophy (ADLD). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015],

Function : disease:Defects in LMNB1 are the cause of leukodystrophy demyelinating autosomal dominant adult-onset (ADLD) [MIM:169500]. ADLD is a slowly progressive and fatal demyelinating leukodystrophy, presenting in the fourth or fifth decade of life. Clinically characterized by early autonomic abnormalities, pyramidal and cerebellar dysfunction, and symmetric demyelination of the CNS. It differs from multiple sclerosis and other demyelinating disorders in that neuropathology shows preservation of oligodendroglia in the presence of subtotal demyelination and lack of astrogliosis.,function:Lamins are components of the nuclear lamina, a fibrous layer on the nucleoplasmic side of the inner nuclear membrane, which is thought to provide a framework for the nuclear envelope and may also interact with chromatin.,miscellaneous:The structural integrity of the lamina is strictly controlled by the cell cycle

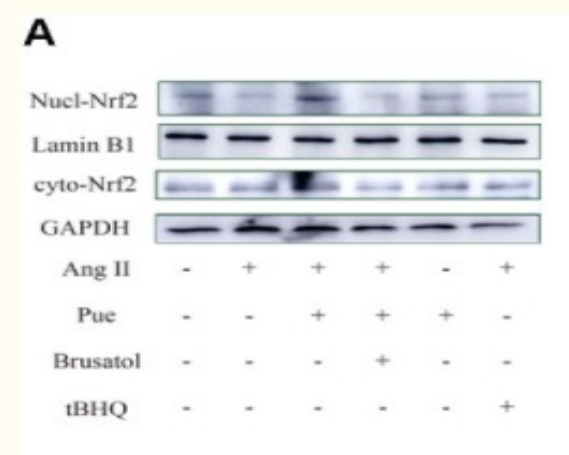
Subcellular Location : Nucleus lamina .

Expression : Brain,Cajal-Retzius cell,Epithelium,Eye,Fetal brain cortex,Ovarian carcinoma,Placenta,Uterus,

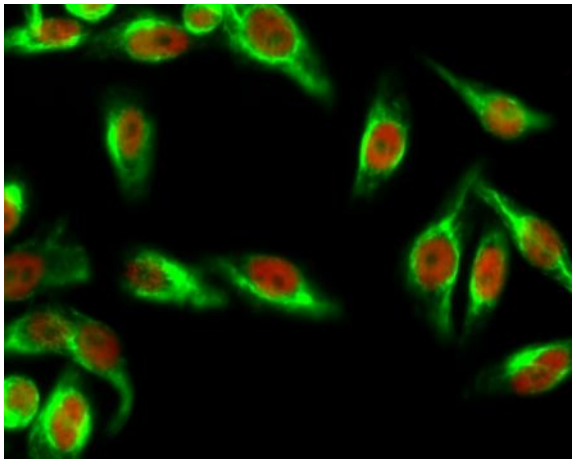
Products Images



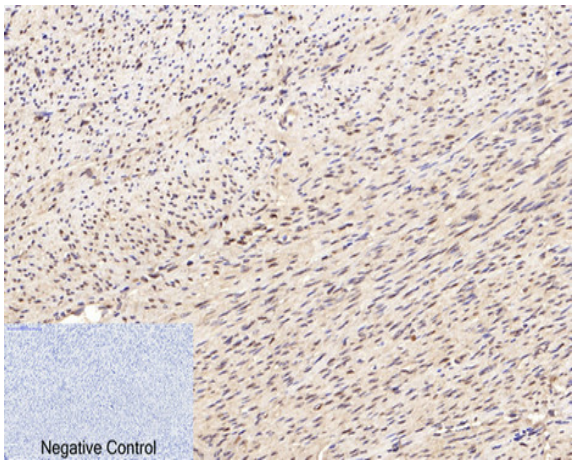
Zhang, Jie, et al. "Neuroprotective effects of astaxanthin against oxygen and glucose deprivation damage via the PI3K/Akt/GSK3β/Nrf2 signalling pathway in vitro." Journal of Cellular and Molecular Medicine 24.16 (2020): 8977-8985.



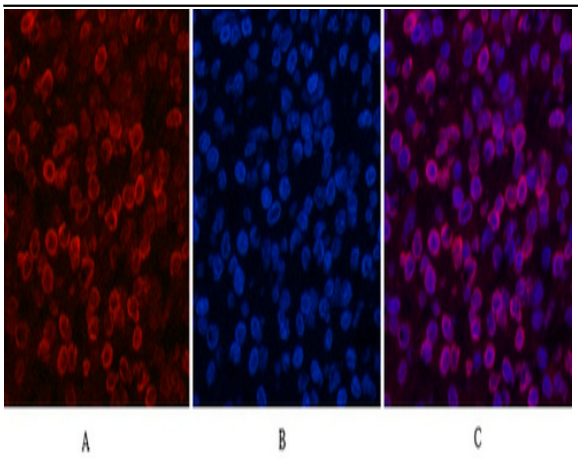
Cai, Shao-Ai, et al. "Nrf2 is a key regulator on puerarin preventing cardiac fibrosis and upregulating metabolic enzymes UGT1A1 in rats." Frontiers in pharmacology 9 (2018).



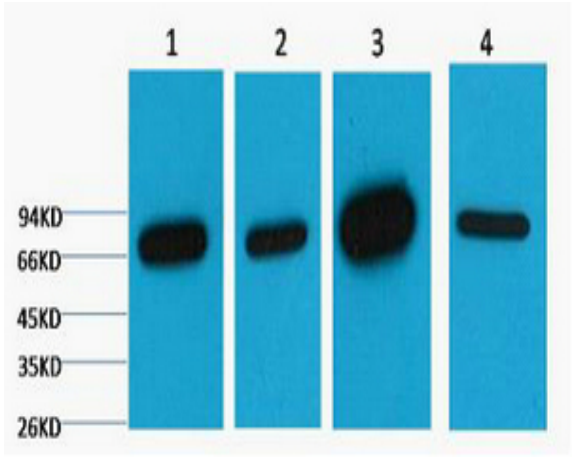
Immunofluorescence analysis of Hela cell. 1,AMPKα1/2 (phospho Thr183/172) Polyclonal Antibody(green) was diluted at 1:200(4° overnight). (red) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 594 Catalog:RS3608 was diluted at 1:1000(room temperature, 50min).



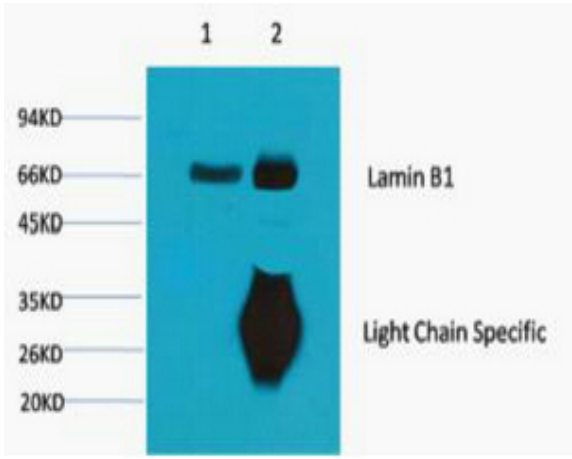
Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,Lamin B1 Monoclonal Antibody(7C11) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



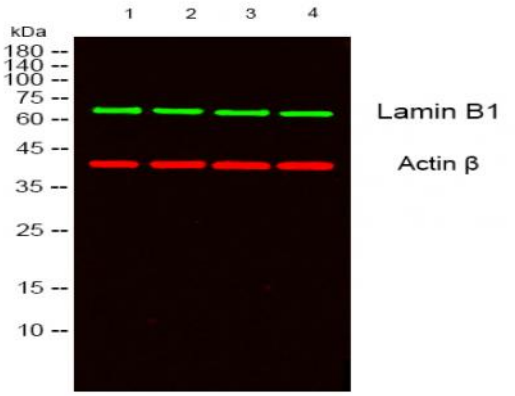
Immunofluorescence analysis of Human-lung-cancer tissue. 1,Lamin B1 Monoclonal Antibody(7C11)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) HepG2, 2) 293T, 3) Mouse Brain Tissue, 4) Rat Brain Tissue, diluted at 1:5000. cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



1) Input: Mouse Brain Tissue Lysate 2) IP product: IP dilute 1:200



Western blot analysis of lysates from 1) HepG2, 2) 293T, 3) Mouse Brain Tissue, 4)Rat Brain Tissue cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23910)was diluted at 1:10000, 37° 1hour. (Red) Actin β Polyclonal Antibody (cat:YT0099) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23720)was diluted at 1:10000, 37° 1hour.