10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NBR1 mouse Monoclonal Antibody(7C3)

Catalog # AP63837

Product Information

Application	IF, ICC, IHC-P
Primary Accession	Q14596
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	107413

Additional Information

Gene ID	4077
Other Names	Next to BRCA1 gene 1 protein (Cell migration-inducing gene 19 protein) (Membrane component chromosome 17 surface marker 2) (Neighbor of BRCA1 gene 1 protein) (Protein 1A1-3B)
Dilution	IF~~IF: 1:50-200 IHC-p 1:50-300 ICC~~N/A IHC-P~~IF: 1:50-200 IHC-p 1:50-300
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

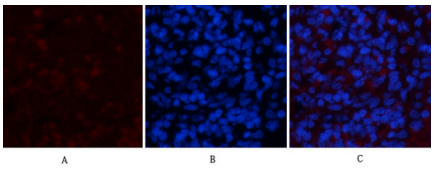
Name	NBR1
Synonyms	1A13B, KIAA0049, M17S2
Function	Ubiquitin-binding autophagy adapter that participates in different processes including host defense or intracellular homeostasis (PubMed:24692539, PubMed:33577621). Possesses a double function during the selective autophagy by acting as a shuttle bringing ubiquitinated proteins to autophagosomes and also by participating in the formation of protein aggregates (PubMed:24879152, PubMed:34471133, PubMed:38169523). Plays a role in the regulation of the innate immune response by modulating type I interferon production and targeting ubiquitinated IRF3 for autophagic degradation (PubMed:35914352). In response to oxidative stress, promotes an increase in SQSTM1 levels, phosphorylation, and body formation by preventing its autophagic degradation (By similarity). In turn, activates the KEAP1-NRF2/NFE2L2 antioxidant pathway (By similarity). Also plays non-autophagy role by mediating the shuttle of IL-12 to late endosome for subsequent secretion (By similarity).

Cellular Location	Cytoplasm. Cytoplasmic vesicle, autophagosome. Lysosome Cytoplasm, myofibril, sarcomere, M line {ECO:0000250|UniProtKB:Q501R9} Note=In cardiac muscles localizes to the sarcomeric M line (By similarity). Is targeted to lysosomes for degradation (PubMed:19250911). {ECO:0000250|UniProtKB:Q501R9, ECO:0000269|PubMed:19250911}

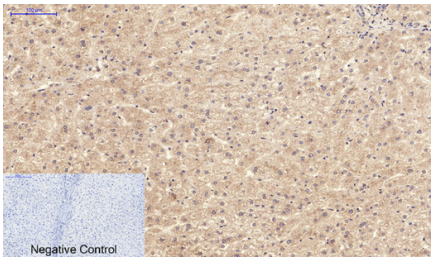
Background

Acts probably as a receptor for selective autophagosomal degradation of ubiquitinated targets.

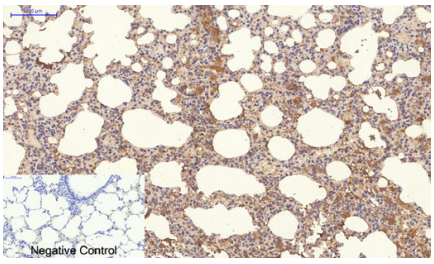
Images



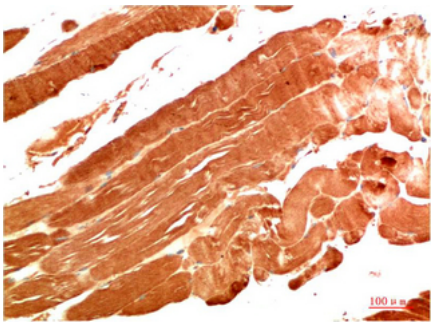
Immunofluorescence analysis of rat-spleen tissue. 1,NBR1 Mouse Monoclonal Antibody(7C3)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Human-liver tissue. 1,NBR1 Mouse Monoclonal Antibody(7C3) 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.



Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,NBR1 Mouse Monoclonal Antibody(7C3) 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.



Immunohistochemical analysis of paraffin-embedded Human Skeletal Muscle Tissue using NBR1 Mouse mAb diluted at 1:200.