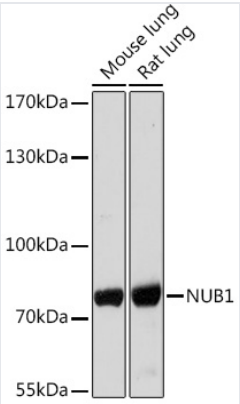
NUB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NUB1, Polyclonal Antibody
Full Product Name	NUB1 Rabbit pAb
Product Gene Name	anti-NUB1 antibody
Product Synonym Names	NUB1; BS4; NUB1L; NYREN18; NEDD8 ultimate buster 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	70,538 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (151038847..151075547). Location: 7q36
OMIM	607981
3D Structure	ModBase 3D Structure for Q9Y5A7
Immunogen	Recombinant protein of human IFT140.
Cellular Location	Nucleus
Positive Samples	Mouse lung, Rat lung
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NUB1 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-NUB1 antibody	WB: 1:500-1:2000 IF: 1:50-1:200
Related Product Information for anti-NUB1 antibody	Background: This gene encodes a protein that functions as a negative regulator of NEDD8, a ubiquitin-like protein that conjugates with cullin family members in order to regulate vital biological events. The protein encoded by this gene regulates the NEDD8 conjugation system post-transcriptionally by recruiting NEDD8 and its conjugates to the proteasome for degradation. This protein interacts with the product of the AIPL1 gene, which is associated with Leber congenital amaurosis, an inherited retinopathy, and mutations in that gene can abolish interaction with this protein, which may contribute to the pathogenesis. This protein is also known to accumulate in Lewy bodies in Parkinson's disease and dementia with Lewy bodies, and in glial cytoplasmic inclusions in multiple system atrophy, with this abnormal accumulation being specific to alpha-synucleinopathy lesions. Alternative splicing of this gene results in multiple transcript variants.
Other Notes	Small volumes of anti-NUB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NUB1 purchase	MBS9143470 is an antibody targeting NUB1. Also known as NUB1 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NUB1 antibody
Western blot analysis of extracts of various cell lines, using NUB1 Rabbit pAb at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit (RM00021).Exposure time: 300s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NUB1. It may not necessarily be applicable to this product.

NCBI GI #	343403794
NCBI GeneID	51667
NCBI Accession #	NP_001230280.1
UniProt Primary Accession #	Q9Y5A7
UniProt Secondary Accession #	O95422; Q75MR9; Q8IX22; Q9BXR2
UniProt Related Accession #	Q9Y5A7
GenBank Nucleotide #	NM_001243351.1
NCBI Official Full Name	NEDD8 ultimate buster 1 isoform 1
NCBI Official Synonym Full Names	negative regulator of ubiquitin-like proteins 1
NCBI Official Symbol	NUB1
NCBI Official Synonym Symbols	BS4; NUB1L; NYREN18
UniProt Protein Name	NEDD8 ultimate buster 1
UniProt Synonym Protein Names	Negative regulator of ubiquitin-like proteins 1; Renal carcinoma antigen NY-REN-18
Protein Family	NEDD8 ultimate buster
UniProt Gene Name	NUB1
UniProt Synonym Gene Names	NYREN18
UniProt Entry Name	NUB1_HUMAN
NCBI Protein Information	NEDD8 ultimate buster 1; NEDD8 ultimate buster-1; renal carcinoma antigen NY-REN-18

NCBI Summary for NUB1	This gene encodes a protein that functions as a negative regulator of NEDD8, a ubiquitin-like protein that conjugates with cullin family members in order to regulate vital biological events. The protein encoded by this gene regulates the NEDD8 conjugation system post-transcriptionally by recruiting NEDD8 and its conjugates to the proteasome for degradation. This protein interacts with the product of the AIPL1 gene, which is associated with Leber congenital amaurosis, an inherited retinopathy, and mutations in that gene can abolish interaction with this protein, which may contribute to the pathogenesis. This protein is also known to accumulate in Lewy bodies in Parkinson's disease and dementia with Lewy bodies, and in glial cytoplasmic inclusions in multiple system atrophy, with this abnormal accumulation being specific to alpha-synucleinopathy lesions. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2011]
UniProt Comments for NUB1	NYREN18: Specific down-regulator of the NEDD8 conjugation system. Recruits NEDD8, UBD, and their conjugates to the proteasome for degradation. Isoform 1 promotes the degradation of NEDD8 more efficiently than isoform 2. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 7q36 Cellular Component: cytoplasm; nucleolus; nucleus Molecular Function: protein binding Biological Process: ubiquitin-dependent protein catabolic process; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; protein ubiquitination
Research Articles on NUB1	**1.** Data propose that NUB1, by regulating GSK3beta levels, modulates tau phosphorylation and aggregation, and is a key player in neurodegeneration associated with tau pathology.
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