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NOC4L antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11835

Product Information

Application	WB, IHC
Primary Accession	Q9BVI4
Other Accession	NM_024078, NP_076983
Reactivity	Human, Mouse, Rat, Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58468

Additional Information

Gene ID	79050
Alias Symbol	NOC4, NET49, UTP19
Other Names	Nucleolar complex protein 4 homolog, NOC4 protein homolog, NOC4-like protein, Nucleolar complex-associated protein 4-like protein, NOC4L
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-NOC4L antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	NOC4L antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

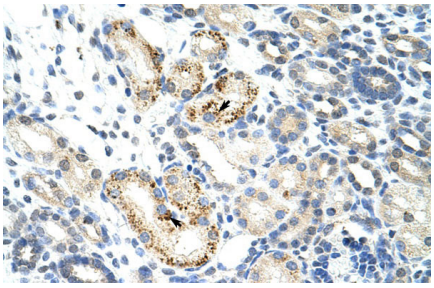
Name	NOC4L
Function	Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit (PubMed:34516797). During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797). Required for the translation of mRNAs related to activation of regulatory and conventional T cells but is not essential for global translation in regulatory T cells (By similarity). Ensures correct nucleolar localization of small ribosomal subunit processome member EMG1

	as part of a complex with NOP14 and UTP14A (PubMed:27798105). Blocks TLR4 endocytosis, causing inhibition of the TICAM1/TRIF signaling pathway (By similarity). This leads to reduced production of inflammatory cytokines which ameliorates local and systemic inflammation and influences insulin sensitivity (By similarity). Inhibits SIRT1-mediated deacetylation of TP53/p53 (PubMed:36030331). Required during early embryogenesis to ensure blastocyst formation (By similarity).
Cellular Location	Nucleus membrane; Multi-pass membrane protein. Nucleus, nucleolus. Nucleus, nucleoplasm. Cytoplasm. Cytoplasmic granule. Early endosome {ECO:0000250|UniProtKB:Q8BHY2}. Note=Localizes to the nucleolus under normal conditions but translocates to the nucleoplasm and cytoplasm under stress conditions.
Tissue Location	In white adipose tissue (WAT), expressed predominantly in macrophages (PubMed:34675215). Expression in WAT is decreased in obese individuals (PubMed:34675215)

References

Rual,J.F., (2005) Nature 437 (7062), 1173-1178Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



Rabbit Anti-NOC4L Antibody
Paraffin Embedded Tissue: Human Kidney
Cellular Data: Epithelial cells of renal tubule
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X



WB Suggested Anti-NOC4L Antibody Titration: 0.2-1 µg/ml
Positive Control: Jurkat cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.