

NOC4L Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57469

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9BVI4
Reactivity	Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58468

Additional Information

Gene ID	79050
Other Names	Nucleolar complex protein 4 homolog, NOC4 protein homolog, NOC4-like protein, Nucleolar complex-associated protein 4-like protein, NOC4L
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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)

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