

Nprl3 (mouse) Antibody (internal region, N-Term)
Peptide-affinity purified goat antibody
Catalog # AF3659a**Specification**

Nprl3 (mouse) Antibody (internal region, N-Term) - Product Information

Application	WB, E
Primary Accession	Q12980
Other Accession	NP_853547.1 , 8131 , 17168 (mouse) , 360505 (rat)
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	63605

Nprl3 (mouse) Antibody (internal region, N-Term) - Additional Information**Gene ID** 8131**Other Names**

Nitrogen permease regulator 3-like protein, -14 gene protein, Alpha-globin regulatory element-containing gene protein, Protein CGTHBA, NPRL3, C16orf35, CGTHBA, MARE

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Nprl3 (mouse) Antibody (internal region, N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Nprl3 (mouse) Antibody (internal region, N-Term) - Protein Information**Name** NPRL3 {ECO:0000303|PubMed:26505888, ECO:0000312|HGNC:HGNC:14124}**Function**

As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing

branch of the mTORC1 pathway (PubMed:23723238, PubMed:29590090, PubMed:35338845). In response to amino acid depletion, the GATOR1 complex has GTPase activating protein (GAP) activity and strongly increases GTP hydrolysis by RagA/RRAGA (or RagB/RRAGB) within heterodimeric Rag complexes, thereby turning them into their inactive GDP-bound form, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling (PubMed:23723238, PubMed:29590090, PubMed:35338845). In the presence of abundant amino acids, the GATOR1 complex is negatively regulated by GATOR2, the other GATOR subcomplex, in this amino acid-sensing branch of the TORC1 pathway (PubMed:23723238).

Cellular Location

Lysosome membrane. Note=Localization to lysosomes is mediated by the KICSTOR complex and is amino acid-independent.

Tissue Location

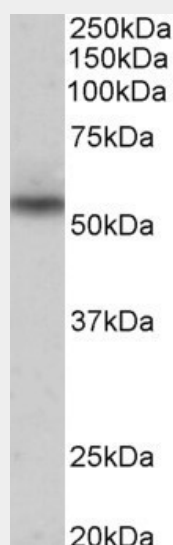
Widely expressed. Expressed in the frontal lobe cortex as well as in the temporal, parietal, and occipital lobes (PubMed:26505888, PubMed:27173016).

Nprl3 (mouse) Antibody (internal region, N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Nprl3 (mouse) Antibody (internal region, N-Term) - Images



AF3659a (0.3 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Nprl3 (mouse) Antibody (internal region, N-Term) - References

Conservation of position and sequence of a novel, widely expressed gene containing the major human alpha-globin regulatory element. Vyas P, Vickers MA, Picketts DJ, Higgs DR. Genomics. 1995 Oct 10;29(3):679-89. PMID: 8575760