

NPRL3 Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21877a

Specification

NPRL3 Antibody (N-Term) - Product Information

Application	WB,E
Primary Accession	Q12980
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Calculated MW	63605

NPRL3 Antibody (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

Target/Specificity

This NPRL3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 86-117 amino acids from human NPRL3.

Dilution

WB~~1:2000

Format

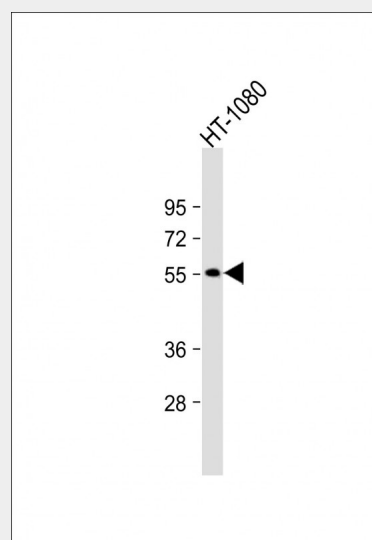
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

NPRL3 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.



Anti-NPRL3 Antibody (N-Term) at 1:2000 dilution + HT-1080 whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 64 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

NPRL3 Antibody (N-Term) - Background

As a component of the GATOR1 complex, inhibitor of the amino acid-sensing branch of the TORC1 pathway. The GATOR1 complex strongly increases GTP hydrolysis by RRAGA and RRAGB within RRAGC- containing heterodimers, thereby deactivating RRAGs, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling.

NPRL3 Antibody (N-Term) - References

Vyas P.,et al.Genomics 29:679-689(1995).
De Gobbi M.,et al.Science 312:1215-1217(2006).
Martin J.,et al.Nature 432:988-994(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DBJ databases.
Neklesa T.K.,et al.PLoS Genet.

5:E1000515-E1000515(2009).

NPRL3 Antibody (N-Term) - Protein Information**Name** NPRL3 ([HGNC:14124](#))**Function**

As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing branch of the TORC1 pathway. The GATOR1 complex strongly increases GTP hydrolysis by RAGA and RAGB within RAGC-containing heterodimers, thereby deactivating RAGs, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling. The GATOR1 complex is negatively regulated by GATOR2 the other GATOR subcomplex in this amino acid-sensing branch of the TORC1 pathway.

Cellular Location

Lysosome membrane. Note=Localization to lysosomes 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:27173016, PubMed:26505888).

NPRL3 Antibody (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](#)