

RT34 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10991a**Specification**

RT34 Antibody (N-term) - Product Information

Application	WB, FC,E
Primary Accession	P82930
Other Accession	NP_076425.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	25650
Antigen Region	4-32

RT34 Antibody (N-term) - Additional Information**Gene ID** 65993**Other Names**

28S ribosomal protein S34, mitochondrial, MRP-S34, S34mt, MRPS34

Target/Specificity

This RT34 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-32 amino acids from the N-terminal region of human RT34.

Dilution

WB~~1:1000

FC~~1:10~50

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

RT34 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RT34 Antibody (N-term) - Protein Information**Name** MRPS34**Function** Required for mitochondrial translation, plays a role in maintaining the stability of the

small ribosomal subunit and the 12S rRNA that are required for mitoribosome formation.

Cellular Location

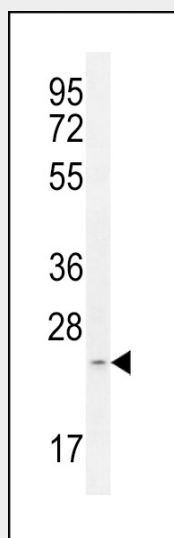
Mitochondrion.

RT34 Antibody (N-term) - Protocols

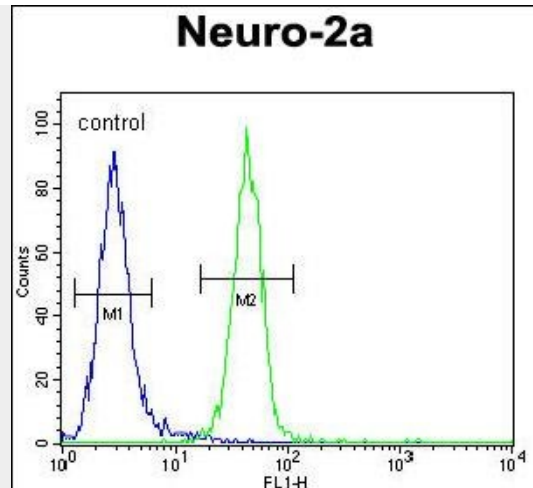
Provided below are standard protocols that you may find useful for product applications.

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

RT34 Antibody (N-term) - Images



RT34 Antibody (N-term) (Cat. #AP10991a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the RT34 antibody detected the RT34 protein (arrow).



RT34 Antibody (N-term) (Cat. #AP10991a) flow cytometric analysis of Neuro-2a cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

RT34 Antibody (N-term) - Background

Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein. Alternate splice variants of this gene have been described but their full-length nature has not been determined.

RT34 Antibody (N-term) - References

- Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
- Zhang, Z., et al. Genomics 81(5):468-480(2003)
- Ogawa, F., et al. Biochem. Biophys. Res. Commun. 300(3):789-792(2003)
- Cavdar Koc, E., et al. J. Biol. Chem. 276(22):19363-19374(2001)
- O'Brien, T.W., et al. J. Biol. Chem. 275(24):18153-18159(2000)