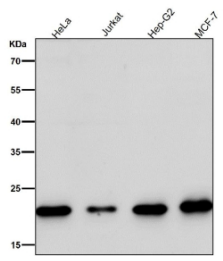
MRPL11 Antibody / Mitochondrial ribosomal protein L11 [clone 32M78] (FY12047)

Catalog No.	Formulation	Size
FY12047	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	32M78
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q9Y3B7
Applications	Western blot: 1:500-1:2000 Immunohistochemistry: 1:50-1:200 Immunocytochemistry/Immunofluorescence: 1:50-1:200
Limitations	This MRPL11 antibody is available for research use only.



All lanes use the MRPL11 antibody at 1:1K dilution for 1 hour at room temperature.
Predicted molecular weight ~21 kDa.

Description

MRPL11 antibody recognizes mitochondrial ribosomal protein L11, a component of the 39S large ribosomal subunit. MRPL11 contributes to mitochondrial protein synthesis by aiding translation of mRNAs encoded within mitochondrial DNA. Proper function of MRPL11 is essential for oxidative phosphorylation and maintenance of cellular energy metabolism.

Research with MRPL11 antibody has shown that altered expression of mitochondrial ribosomal proteins can impair respiratory chain activity, leading to mitochondrial dysfunction. Such disturbances are implicated in neuromuscular disorders, metabolic syndromes, and age-related decline in mitochondrial efficiency. MRPL11 expression is therefore of interest for studies of energy balance and disease pathogenesis.

Antibodies against MRPL11 are validated for use in western blot, immunohistochemistry, and immunofluorescence. These reagents help researchers analyze mitochondrial translation and investigate how ribosomal proteins contribute to cellular stress adaptation.

NSJ Bioreagents offers this MRPL11 antibody to support studies of mitochondrial protein synthesis and energy metabolism.

Application Notes

Optimal dilution of the MRPL11 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human MRPL11 was used as the immunogen for the MRPL11 antibody.

Storage

Store the MRPL11 antibody at -20oC.

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