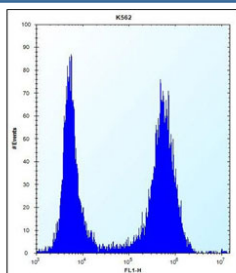


MT-ND3 Antibody / NADH-ubiquinone oxidoreductase chain 3 (F55133)

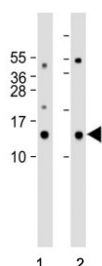
Catalog No.	Formulation	Size
F55133-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55133-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-2 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P03897
Applications	Western Blot : 1:500-1:1000 Flow Cytometry : 1:10-1:50 per million cells in 0.1ml
Limitations	This MT-ND3 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human K562 cells with MT-ND3 antibody (right) and isotype control (left).



Western blot testing of human 1) heart and 2) kidney tissue lysate with MT-ND3 antibody. Predicted molecular weight ~13 kDa.

Description

MT-ND3 is a critical subunit of complex I, acting as a catalyst in the transfer of electrons from NADH to ubiquinone. This process is essential for generating the proton gradient necessary for ATP production. Without MT-ND3, the electron transport chain would not be able to function properly, leading to a decrease in ATP production and ultimately, cellular dysfunction. Research has shown that mutations in the gene encoding MT-ND3 can lead to mitochondrial diseases and a range of health problems, including muscle weakness, neurological disorders, and even premature aging.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MT-ND3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 10-38 from the human protein was used as the immunogen for this MT-ND3 antibody.

Storage

Store at 4oC for up to one month. For long term, aliquot the MT-ND3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.