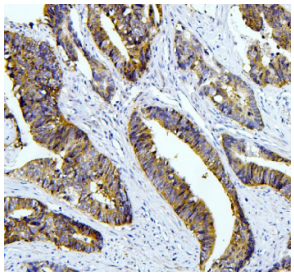
Tafazzin Antibody / TAZ (RQ5599)

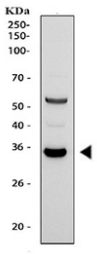
Catalog No.	Formulation	Size
RQ5599	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q16635
Localization	Cytoplasmic, membrane
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This Tafazzin antibody is available for research use only.



IHC staining of FFPE human colon cancer with Tafazzin antibody. HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.



Western blot testing of human A549 cell lysate with Tafazzin antibody. Expected molecular weight ~33 kDa.

Description

Tafazzin (TAZ) is a mitochondrial phospholipid-lysophospholipid transacylase that plays a critical role in remodeling cardiolipin, a signature phospholipid of the inner mitochondrial membrane. Through the transfer of acyl chains to monolysocardiolipin, Tafazzin produces mature cardiolipin species with optimized acyl composition. This process is essential for maintaining mitochondrial structure, stabilizing respiratory chain complexes, and supporting efficient energy production.

Research has shown that Tafazzin activity is particularly important in tissues with high energy demands, such as heart and skeletal muscle. Disruption of normal Tafazzin function can lead to imbalances in mitochondrial lipid composition, which may affect cellular energy metabolism and overall mitochondrial performance. Because of its central role in mitochondrial lipid biology, Tafazzin is a valuable target for studies in metabolism, bioenergetics, and organelle maintenance.

The **Tafazzin antibody** is a reliable tool for detecting endogenous TAZ in applications such as western blot, immunofluorescence, and immunohistochemistry. Researchers use the Tafazzin antibody to study protein abundance, subcellular localization, and the effects of experimental treatments on cardiolipin remodeling pathways. With proven specificity and consistent performance, the Tafazzin antibody supports both basic research and applied studies of mitochondrial function.

Application Notes

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

Immunogen

A human recombinant protein (amino acids M73-R292) was used as the immunogen for the Tafazzin antibody.

Storage

After reconstitution, the Tafazzin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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