

TMEM70 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS13815**Specification**

TMEM70 Antibody (Internal) - Product Information

Application	IF, WB
Primary Accession	Q9BUB7
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29kDa KDa

TMEM70 Antibody (Internal) - Additional Information**Gene ID** 54968**Other Names**

Transmembrane protein 70, mitochondrial, TMEM70

Target/Specificity

Human TMEM70

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

TMEM70 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

TMEM70 Antibody (Internal) - Protein Information**Name** TMEM70 ([HGNC:26050](#))**Function**

Scaffold protein that participates in the c-ring assembly of mitochondrial ATP synthase (F(1)F(0) ATP synthase or complex V) by facilitating the membrane insertion and oligomer formation of the subunit c/ATP5MC1 through its interaction (PubMed:31652072, PubMed:33753518, PubMed:33359711, PubMed:32275929). Therefore, participates in the early stage of mitochondrial ATP synthase biogenesis and also protects subunit c/ATP5MC1 against intramitochondrial proteolysis (PubMed:33359711, PubMed:18953340, PubMed:20937241, PubMed:31652072). In addition,

binds the mitochondrial proton-transporting ATP synthase complexes I and may play a role in the stability of its membrane-bound subassemblies (PubMed:32275929).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein. Note=Mostly located within the inner cristae membrane

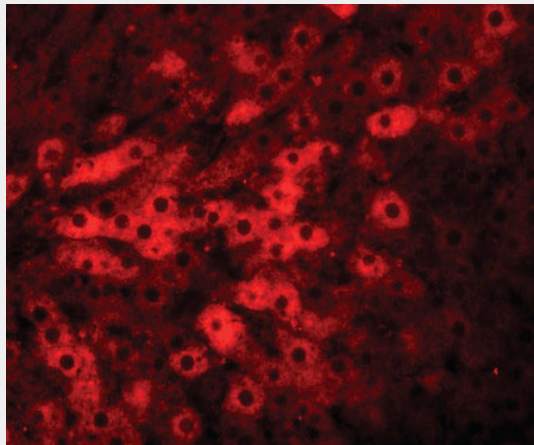
Tissue Location

Lower expressed in the heart than in the liver (at protein level).

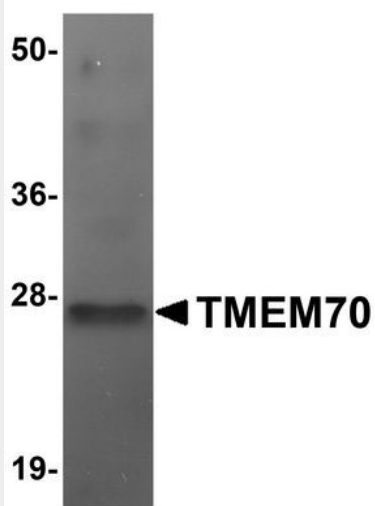
TMEM70 Antibody (Internal) - Protocols

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](#)

TMEM70 Antibody (Internal) - Images

Immunofluorescence of TMEM70 in rat liver tissue with TMEM70 antibody at 20 ug/ml.



Western blot analysis of TMEM70 in human liver tissue lysate with TMEM70 antibody at 1 ug/ml.

TMEM70 Antibody (Internal) - Background

Involved in biogenesis of mitochondrial ATP synthase.

TMEM70 Antibody (Internal) - References

- Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Cizkova A.,et al.Nat. Genet. 40:1288-1290(2008).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).
Hejzlarova K.,et al.Biochim. Biophys. Acta 1807:144-149(2011).