

TMEM43 (N-13): sc-99679

BACKGROUND

TMEM43 (transmembrane protein 43), also known as LUMA, ARVC5 or ARVD5, is a 400 amino acid multi-pass membrane protein that localizes to the inner nuclear membrane, as well as to the endoplasmic reticulum. Highly expressed in placenta and present at lower levels in ovary, heart, thymus, spleen, prostate, testis and small intestine, TMEM43 is required for retaining emerin at the nuclear membrane and may also play an important role in the maintenance of nuclear envelope structure. Defects in the gene encoding TMEM43 are the cause of familial arrhythmogenic right ventricular dysplasia type 5 (ARVD5), an inherited disorder that is characterized by heart failure, ventricular tachycardia, fibrofatty replacement of cardiomyocytes and sudden cardiac death.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMEM43 (human) mapping to 3p25.1.

SOURCE

TMEM43 (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of TMEM43 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99679 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

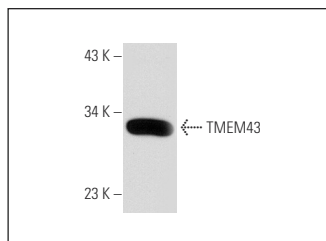
TMEM43 (N-13) is recommended for detection of TMEM43 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TMEM family members.

Suitable for use as control antibody for TMEM43 siRNA (h): sc-78426, TMEM43 shRNA Plasmid (h): sc-78426-SH and TMEM43 shRNA (h) Lentiviral Particles: sc-78426-V.

Molecular Weight of TMEM43: 45 kDa.

Positive Controls: TMEM43 (m): 293T Lysate: sc-124169.

DATA



TMEM43 (N-13): sc-99679. Western blot analysis of TMEM43 expression in EOC 20 whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **TMEM43 (E-1): sc-365298** or **TMEM43 (F-3): sc-271887**, our highly recommended monoclonal alternatives to TMEM43 (N-13).