# TMC8 (C-12): sc-109087



The Power to Question

## **BACKGROUND**

Transmembrane channel-like protein 8 (TMC8), also known as Epidermodysplasia verruciformis protein 2 (EVER2), is a 726 amino acid member of the TMC family of proteins. Localized to the endoplasmic reticulum membrane, TMC8 is thought to form a transmembrane channel-like protein with eight predicted transmembrane domains and three leucine zipper motifs. Mutations in the genes encoding TMC8 and TMC6, another member of the TMC family, have been shown to cause epidermodysplasia verruciformis (EV), an autosomal recessive dermatosis characterized by abnormal susceptibility to human papillomaviruses (HPVs) and a high rate of progression to squamous cell carcinoma on sun-exposed skin. Infection by HPVs lead to persistent wart-like or macular lesions. TMC8 is expressed in placenta, prostate and testis, and three named isoforms exist as a result of alternative splicing events.

# **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: TMC8 (human) mapping to 17g25.3.

#### **SOURCE**

TMC8 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of TMC8 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-109087 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

TMC8 (C-12) is recommended for detection of TMC8 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

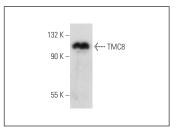
Suitable for use as control antibody for TMC8 siRNA (h): sc-94147, TMC8 shRNA Plasmid (h): sc-94147-SH and TMC8 shRNA (h) Lentiviral Particles: sc-94147-V.

Molecular Weight (predicted) of TMC8: 82 kDa.

Molecular Weight (observed) of TMC8: 119 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

#### **DATA**



TMC8 (C-12): sc-109087. Western blot analysis of TMC8 expression in Jurkat 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.