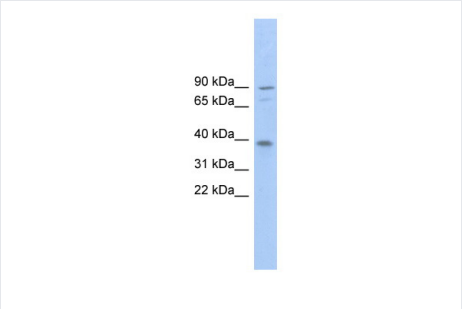
TMC8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TMC8, Polyclonal Antibody
Full Product Name	TMC8 antibody - N-terminal region
Product Gene Name	anti-TMC8 antibody
Product Synonym Gene Name	EV2; EVER2; EVIN2; MGC102701; MGC40121
Immunogen Sequence	Synthetic peptide located within the following region: PGPTLNLTLQ CPGSRQSPPG VLRFHNQLWH VLTGRAFTNT YLFYGAYRVG
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	TMC8 peptide (MBS3236036) is used for blocking the activity of TMC8 antibody (MBS3211083)
Molecular Weight	82kDa
OMIM	226400
3D Structure	ModBase 3D Structure for Q8IU68
Homology	Human: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human TMC8
Product Categories/Family for anti-TMC8 antibody	Polyclonal; Various
Applications Tested/Suitable for anti-TMC8 antibody	Western Blot (WB)
Related Product Information for anti-TMC8 antibody	This is a rabbit polyclonal antibody against TMC8. It was validated on Western Blot using a cell lysate as a positive control. Target Description: Epidermodysplasia verruciformis (EV) is 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. EV is caused by mutations in either of two adjacent genes located on chromosome 17q25.3. Both of these genes encode integral membrane proteins that localize to the endoplasmic reticulum and are predicted to form transmembrane channels. This gene encodes a transmembrane channel-like protein with 8 predicted transmembrane domains and 3 leucine zipper motifs.
Other Notes	Small volumes of anti-TMC8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TMC8 purchase	MBS3211083 is an antibody targeting TMC8. Also known as TMC8 antibody - N-terminal region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TMC8 antibody
WB Suggested Anti-TMC8 Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:62500Positive Control: 721_B cell lysate

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TMC8. It may not necessarily be applicable to this product.

NCBI GI #	23943900
NCBI GeneID	147138
NCBI Accession #	NP_689681
UniProt Primary Accession #	Q8IU68
UniProt Related Accession #	Q8IU68
GenBank Nucleotide #	NM_152468
NCBI Official Full Name	transmembrane channel-like protein 8
NCBI Official Synonym Full Names	transmembrane channel like 8
NCBI Official Symbol	TMC8
NCBI Official Synonym Symbols	EV2; EVER2; EVIN2
UniProt Protein Name	Transmembrane channel-like protein 8
UniProt Synonym Protein Names	Epidermodysplasia verruciformis protein 2
Protein Family	Transmembrane channel-like protein
UniProt Gene Name	TMC8
UniProt Synonym Gene Names	EVER2; EVIN2
UniProt Entry Name	TMC8_HUMAN
NCBI Protein Information	transmembrane channel-like protein 8
NCBI Summary for TMC8	Epidermodysplasia verruciformis (EV) is 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. EV is caused by mutations in either of two adjacent genes located on chromosome 17q25.3. Both of these genes encode integral membrane proteins that localize to the endoplasmic reticulum and are predicted to form transmembrane channels. This gene encodes a transmembrane channel-like protein with 8 predicted transmembrane domains and 3 leucine zipper motifs. [provided by RefSeq, Jul 2008]

UniProt Comments for TMC8	TMC8: an endoplasmic reticulum multipass membrane protein. Defects in TMC8 cause Lutz-Lewandowsky epidermodysplasia verruciformis [MIM:226400], a rare skin disease characterized by increased susceptibility to infection by papillomaviruses with an accompanying high risk of skin carcinoma. Three splice-variant isoforms of the human protein have been described. Protein type: Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: Golgi apparatus; extracellular space; endoplasmic reticulum membrane; nuclear membrane; endoplasmic reticulum; cytoplasm; integral to membrane Molecular Function: protein binding; receptor binding Biological Process: negative regulation of protein oligomerization; zinc ion homeostasis; ion transport; regulation of cell growth; negative regulation of protein binding Disease: Epidermodysplasia Verruciformis
Research Articles on TMC8	**1.** The relatively high proportion of EV patients without mutation in TMC6/8 indicates the existence of EV-causing mutations in additional, presently unknown gene(s). However, a homozygous TMC8 splice site mutation in our patients resulted in aberrant transcripts which cannot retain the healthy phenotype
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