

Product datasheet for **TA328672**

TMC6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide CGPFRTLDTMYEAGR, corresponding to amino acid residues 681-695 of human TMC6. Intracellular, Cytoplasm.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	transmembrane channel like 6
Database Link:	NP_009198 Entrez Gene 688280 Rat Entrez Gene 11322 Human Q7Z403



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Background:

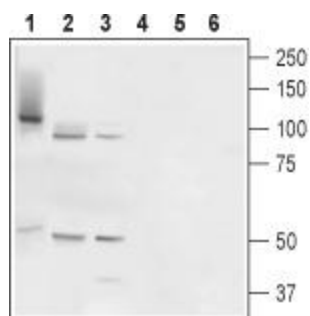
EVER gene belongs to larger family of proteins referred to as the transmembrane channel-like protein (TMC) family. EVER1/TMC6 protein, integral membrane protein, is located in the endoplasmic reticulum (ER) of keratinocytes, where it forms a complex with zinc transporter-1 (ZnT-1) a membrane protein responsible for zinc efflux and resistance to zinc toxicity, thereby controlling the cellular zinc balance. The EVER1 protein is predicted to have 10 transmembrane domains and 2 leucine zipper motifs. The EVER1 gene encodes 2 alternatively spliced proteins, one of 805 amino acids and the other of 454 amino acids, in the same open reading frame. The EVER genes are thought to be transcribed in numerous tissues including the skin. Mutations in the TMC6 are implicated in the development of the rare autosomal recessive disease Epidermodysplasia Verruciformis (EV). EV is characterized by extreme susceptibility to infection by cutaneous human papillomaviruses (HPV) of the beta genus. The TMC6 genes may be involved in controlling HPV gene expression and replication in epidermal keratinocytes or they may directly affect innate and adaptive immune responses which control the clearance of HPV-infected keratinocytes in EV cases. A recent report indicated an association between genetic variation in the TMC6 region and development of cervical cancer (CxCa) .

Synonyms:

EV1; EVER1; EVIN1; LAK-4P

Protein Families:

Transmembrane

Product images:

Western blot analysis of rat prostate (lanes 1 and 4), rat testis (lanes 2 and 5) and rat placenta (lanes 3 and 6): 1-3. Anti-TMC6 (EVER1) antibody, (1:800). 4-6. Anti-TMC6 (EVER1) antibody, preincubated with the control peptide antigen.