

# TMC6 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP14212a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q7Z403</a>
<b>Other Accession</b>	<a href="#">NP_009198.4</a> , <a href="#">NP_001120670.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB34148
<b>Calculated MW</b>	90045
<b>Antigen Region</b>	160-188

## Additional Information

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<b>Gene ID</b>	11322
<b>Other Names</b>	Transmembrane channel-like protein 6, Epidermolyticus verruciformis protein 1, Protein LAK-4, TMC6, EVER1, EVIN1
<b>Target/Specificity</b>	This TMC6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-188 amino acids from the N-terminal region of human TMC6.
<b>Dilution</b>	WB~1:1000 E~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	TMC6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TMC6 ( <a href="#">HGNC:18021</a> )
<b>Function</b>	Acts as a regulatory protein involved in the regulation of numerous cellular processes (PubMed: <a href="#">18158319</a> , PubMed: <a href="#">30068544</a> , PubMed: <a href="#">32917726</a> ). Together with its homolog TMC8/EVER2, forms a complex with CIB1 in

lymphocytes and keratinocytes where TMC6 and TMC8 stabilize CIB1 and reciprocally (PubMed:[30068544](#), PubMed:[32917726](#)). Together with TMC8, also forms a complex with and activates zinc transporter ZNT1 at the ER membrane of keratinocytes, thereby facilitating zinc uptake into the ER (PubMed:[18158319](#)). Down-regulates the activity of transcription factors induced by zinc and cytokines (PubMed:[18158319](#)). Also plays a role in thermal sensation by inhibiting the M-channel (KCNQ2-KCNQ3 channel) current in primary sensory neurons (By similarity).

#### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Nucleus membrane; Multi-pass membrane protein. Note=Localizes to the ER, Golgi and nucleus membranes in keratinocytes.

#### Tissue Location

Expressed in placenta, prostate, testis, activated T-lymphocytes and lymphokine-activated killer (LAK) lymphocytes  
{ECO:0000269 | PubMed:12906855, ECO:0000269 | Ref.3}

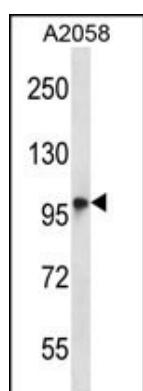
## Background

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 10 transmembrane domains and 2 leucine zipper motifs.

## References

McDermott, D.F., et al. Pediatr Dermatol 26(3):306-310(2009)  
Lazarczyk, M., et al. J. Exp. Med. 205(1):35-42(2008)  
Zuo, Y.G., et al. J. Dermatol. Sci. 44(3):153-159(2006)  
Olsen, J.V., et al. Cell 127(3):635-648(2006)  
Donfack, J., et al. Int. J. Pediatr. Otorhinolaryngol. 70(7):1235-1240(2006)

## Images



TMC6 Antibody (N-term) (Cat. #AP14212a) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the TMC6 antibody detected the TMC6 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.