

Datasheet for ABIN7601198
anti-TMPRSS3 antibody (AA 3-454)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	TMPRSS3
Binding Specificity:	AA 3-454
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TMPRSS3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-TMPRSS3 Antibody Picoband®
Immunogen:	E.coli-derived human TMPRSS3 recombinant protein (Position: E3-T454).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TMPRSS3 Antibody (ABIN7601198). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	TMPRSS3
Alternative Name:	TMPRSS3 (TMPRSS3 Products)
Background:	Synonyms: Eukaryotic peptide chain release factor subunit 1, Eukaryotic release factor 1, Erf1, Protein Cl1, TB3-1, ETF1, ERF1, RF1, SUP45L1 Tissue Specificity: Mainly expressed in testis. Isoform 3 is expressed predominantly in adult testis, weakly in pancreas, embryonic testis and sperm, and at very low levels in other organs. Background: Transmembrane protease, serine 3 is an enzyme that in humans is encoded by the TMPRSS3 gene. This gene encodes a protein that belongs to the serine protease family. The encoded protein contains a serine protease domain, a transmembrane domain, an LDL receptor-like domain, and a scavenger receptor cysteine-rich domain. Serine proteases are known to be involved in a variety of biological processes, whose malfunction often leads to human diseases and disorders. This gene was identified by its association with both congenital and childhood onset autosomal recessive deafness. This gene is expressed in fetal cochlea and many other tissues, and is thought to be involved in the development and maintenance of the inner ear or the contents of the perilymph and endolymph. This gene was also identified as a tumor-associated gene that is overexpressed in ovarian tumors. Alternatively spliced transcript variants have been described.
Molecular Weight:	48 kDa
Gene ID:	64699
UniProt:	P57727
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Ben-Yosef, T., Wattenhofer, M., Riazuddin, S., Ahmed, Z. M., Scott, H. S., Kudoh, J., Shibuya, K., Antonarakis, S. E., Bonne-Tamir, B., Radhakrishna, U., Naz, S., Ahmed, Z., Riazuddin, S., Pandya, A., Nance, W. E., Wilcox, E. R., Friedman, T. B., Morell, R. J. Novel mutations of TMPRSS3 in four DFNB8/B10 families segregating congenital autosomal recessive deafness. (Letter) J. Med. Genet. 38: 396-400, 2001. 2. Fasquelle, L., Scott, H. S., Lenoir, M., Wang, J., Rebillard, G., Goboyard, S., Venteo, S., Francois, F., Mausset-Bonnefont, A.-L., Antonarakis, S. E., Neidhart, E.,
--------------------	---

Application Details

Chabbert, C., Puel, J.-L., Guipponi, M., Delprat, B. Tmprss3, a transmembrane serine protease deficient in human DFNB8/10 deafness, is critical for cochlear hair cell survival at the onset of hearing. J. Biol. Chem. 286: 17383-17397, 2011. 3. Guipponi, M., Vuagniaux, G., Wattenhofer, M., Shibuya, K., Vazquez, M., Dougherty, L., Scamuffa, N., Guida, E., Okui, M., Rossier, C., Hancock, M., Buchet, K., Reymond, A., Hummler, E., Marzella, P. L., Kudoh, J., Shimizu, N., Scott, H. S., Antonarakis, S. E., Rossier, B. C. The transmembrane serine protease (TMPRSS3) mutated in deafness DFNB8/10 activates the epithelial sodium channel (ENaC) in vitro. Hum. Molec. Genet. 11: 2829-2836, 2002.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.