



# TMPRSS3 Polyclonal Antibody

<b>Catalog No</b>	BYab-02800
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	TMPRSS3
<b>Protein Name</b>	Transmembrane protease serine 3
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human TMPRSS3. AA range:405-454
<b>Specificity</b>	TMPRSS3 Polyclonal Antibody detects endogenous levels of TMPRSS3 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	TMPRSS3; ECHOS1; TADG12; Transmembrane protease serine 3; Serine protease TADG-12; Tumor-associated differentially-expressed gene 12 protein
<b>Observed Band</b>	49kD
<b>Cell Pathway</b>	Endoplasmic reticulum membrane ; Single-pass type II membrane protein .
<b>Tissue Specificity</b>	Expressed in many tissues including fetal cochlea. Isoform T is found at increased levels in some carcinomas.
<b>Function</b>	disease:Defects in TMPRSS3 are a cause of non-syndromic sensorineural deafness autosomal recessive type 10 (DFNB10) [MIM:605316].,disease:Defects in TMPRSS3 are the cause of non-syndromic sensorineural deafness autosomal recessive type 8 (DFNB8) [MIM:601072]. DFNA8 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.,function:Probable protease. Seems to be capable of activating ENaC.,PTM:Undergoes autoprolytic activation.,similarity:Belongs to the peptidase S1 family.,similarity:Contains 1 LDL-receptor class A

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domain.,similarity:Contains 1 peptidase S1 domain.,similarity:Contains 1 SRCR domain.,tissue specificity:Expressed in many tissues including fetal cochlea. Isoform T is found at increased levels in some carcinomas.,

### Background

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. [provided by RefSeq, Jan 2012],

### matters needing attention

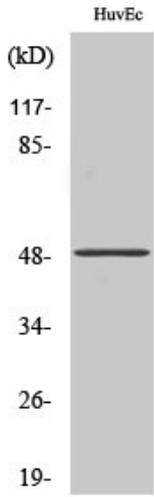
Avoid repeated freezing and thawing!

### Usage suggestions

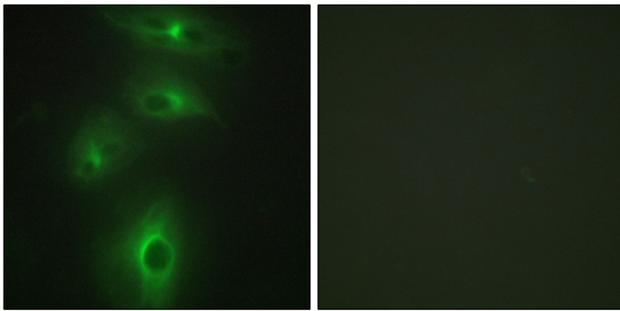
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



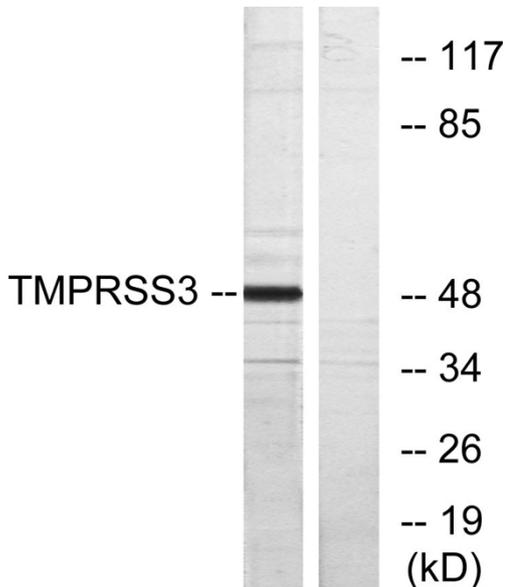
## Products Images



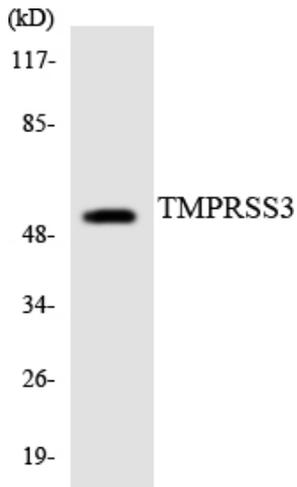
Western Blot analysis of various cells using TMPRSS3 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



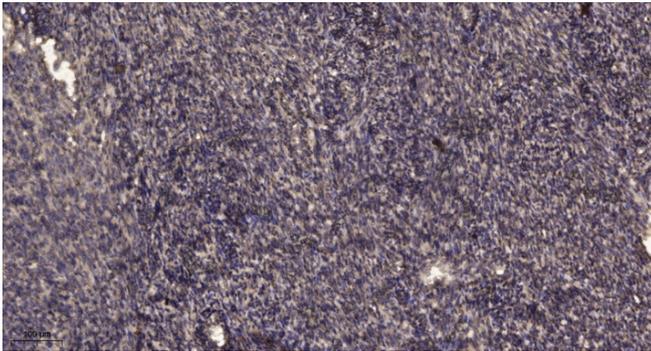
Immunofluorescence analysis of HeLa cells, using TMPRSS3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HUVEC cells, using TMPRSS3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using TMPRSS3 antibody.



Immunohistochemical analysis of paraffin-embedded human uterus. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).