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Product datasheet for AP20427PU-M

TMPRSS3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot:** 1/500-1/1000. **Immunoflourescence:** 1/50-1/200. **Immunohistochemistry on Paraffin Sections:** 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of TMPRSS3 protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~49 kDa
Gene Name:	transmembrane protease, serine 3
Database Link:	Entrez Gene 140765 MouseEntrez Gene 64699 Human P57727

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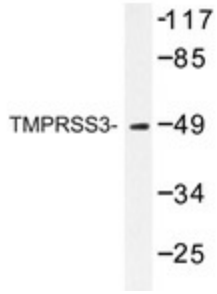
Background: Extracellular proteases mediate the digestion of neighboring extracellular matrix components in initial tumor growth, allow desquamation of tumor cells into the surrounding environment, provide the basis for invasion of basement membranes in targeted metastatic organs and are required for release and activation of many growth and angiogenic factors. The TMPRSS3 (also known as ECHOS1) gene, which encodes a transmembrane serine protease, has been found to be responsible for two non-syndromic recessive deafness loci located on human chromosome 21q22.3, DFNB8 and DFNB10.TMPRSS3, a 437 amno acid membrane bound serine protease and a member of the S1 peptidase family. TMPRSS3 contains an amino-terminal signalanchor sequence and a glycosylated extracellular region containing the serine protease domain. Two novel missense mutations of TMPRSS3, W251C and P404L, alter the highly conserved amino acids of the serine protease domain. TMPRSS3 is expressed in many tissues, including fetal cochle,a a subset of pancreatic cancer and various other cancer tissues. TMPRSS3 is also overexpressed in cancer, suggesting that it may be important for processes in metastasis formation and tumor invasion.

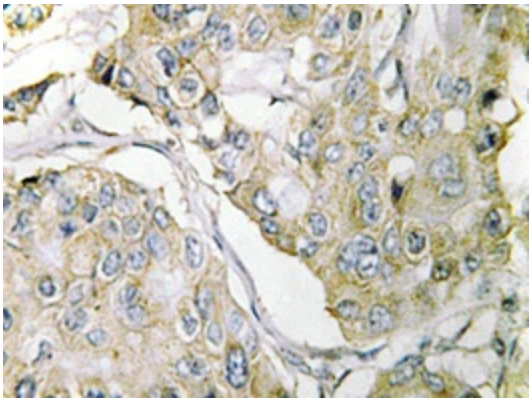
Synonyms: Transmembrane protease serine 3, ECHOS1, TADG12, TADG-12

Protein Families: Druggable Genome, Protease, Transmembrane

Product images:



Western blot analysis of TMPRSS3 antibody (Cat.-No [AP20427PU-N]) in extracts from HUVEC cells.



Immunohistochemistry analyzes of TMPRSS3 antibody (Cat.-No [AP20427PU-N]) in paraffin-embedded human breast carcinoma tissue.