Datasheet for ABIN7595311

anti-TMPRSS2 antibody (AA 2-50)

Go to Product page

Overview

Quantity:	100 µL
Target:	TMPRSS2
Binding Specificity:	AA 2-50
Reactivity:	Human
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This TMPRSS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Guinea pig antibody to TMPRSS2
Immunogen:	A synthetic peptide from AA 2-50 of human TMPRSS2 conjugated to blue carrier protein was used as the antigen.
Specificity:	Specific for TMPRSS2.
Cross-Reactivity:	Human, Rat
Cross-Reactivity (Details):	Other species not yet test.
Purification:	Whole serum

Target Details

Target:	TMPRSS2
Alternative Name:	TMPRSS2 (TMPRSS2 Products)
Background:	Function: Plasma membrane-anchored serine protease that participates in proteolytic cascades of relevance for the normal physiologic function of the prostate. Androgen-induced TMPRSS2 activates several substrates that include pro-hepatocyte growth factor/HGF the protease activated receptor-2/F2RL1 or matriptase/ST14 leading to extracellular matrix disruption and metastasis of prostate cancer cells. In addition activates trigeminal neurons and contribute to both spontaneous pain and mechanical allodynia. (Microbial infection) Facilitates human coronaviruses SARS-CoV and SARS-CoV-2 infections via two independent mechanisms proteolytic cleavage of ACE2 receptor which promotes viral uptake and cleavage of coronavirus spike glycoproteins which activates the glycoprotein for host cell entry. Proteolytically cleaves and activates the spike glycoproteins of human coronavirus 229E (HCoV-229E) and human coronavirus EMC (HCoV-EMC) and the fusion glycoproteins F0 of Sendai virus (SeV) human metapneumovirus (HMPV) human parainfluenza 1 2 3 4a and 4b viruses (HPIV). Essential for spread and pathogenesis of influenza A virus (strains H1N1 H3N2 and H7N9), involved in proteolytic cleavage and activation of hemagglutinin (HA) protein which is essential for viral infectivity. Expression: Expressed in several tissues that comprise large populations of epithelial cells with the highest level of transcripts measured in the prostate gland. Expressed in type II pneumocytes in the lung (at protein level). Expressed strongly in small intestine. Also expressed in colon stomach and salivary gland. Coexpressed with ACE2 within lung type II pneumocytes ileal absorptive enterocytes intestinal epithelial cells cornea gallbladder and nasal goblet secretory cells
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	IHC WB. A dilution of 1: 2000 is recommended fro WB,IHC-P. The optimal dilution should be determined by the end user. Not yet tested in other applications.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 100 µL of sterile water. Centrifuge to remove any insoluble material.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8C for a shorter term. When reconstituting glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.
Expiry Date:	12 months

