

# Product Datasheet

## TMPRSS2 Antibody NBP1-20984

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-20984**

## TMPRSS2 Antibody

Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
<b>Target Molecular Weight</b>	53.9 kDa

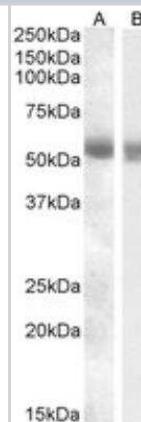
Product Description	
<b>Description</b>	Novus Biologicals Goat TMPRSS2 Antibody (NBP1-20984) is a polyclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and Simple Western. Anti-TMPRSS2 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Goat
<b>Gene ID</b>	7113
<b>Gene Symbol</b>	TMPRSS2
<b>Species</b>	Human
<b>Reactivity Notes</b>	Expected from sequence similarity: Mouse (82%)
<b>Immunogen</b>	This TMPRSS2 Antibody was developed against a peptide with sequence C-TDWIYRQMRADG corresponding to internal region according to NP_005647.2.

Product Application Details	
<b>Applications</b>	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot 0.1 - 0.5 ug/mL, Simple Western, Immunohistochemistry 6 - 8 ug/mL, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 6 - 8 ug/mL, Peptide ELISA Detection limit 1:8000
<b>Application Notes</b>	Western blot: Approx 55-60 kDa band observed in Human pancreas and kidney lysates (calculated MW of 53.9 kDa according to NP_005647.2). Use in ICC/IF reported in scientific publication (PMID: 32511360).

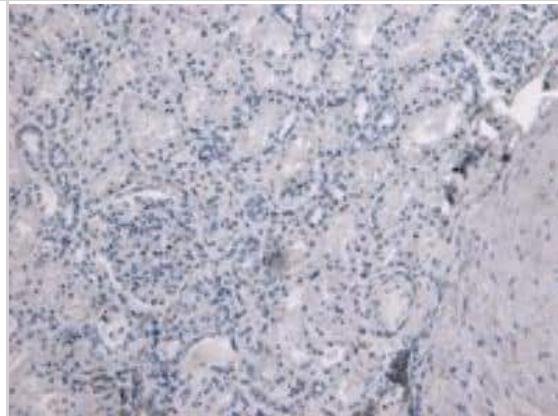


## Images

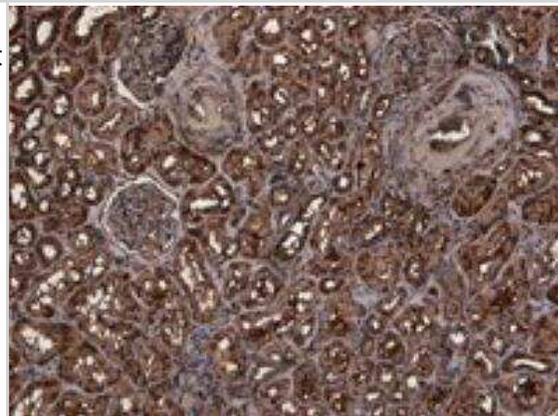
Western Blot: TMPRSS2 Antibody [NBP1-20984] - Western blot analysis of Human pancreas and kidney lysates (35 ug protein in RIPA buffer). Antibody at 0.5 ug/mL. Detected by chemiluminescence.



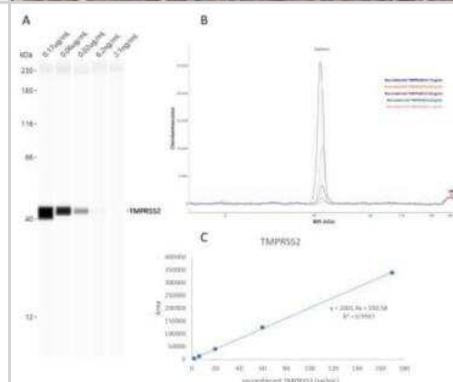
Immunohistochemistry-Paraffin: TMPRSS2 Antibody [NBP1-20984] - Negative Control showing staining of paraffin embedded Human Kidney, with no primary antibody.



Immunohistochemistry-Paraffin: TMPRSS2 Antibody [NBP1-20984] - Staining of paraffin embedded Human Kidney. Antibody at 8 ug/mL. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Simple Western: TMPRSS2 Antibody [NBP1-20984] - Simple Western lane view (A) and electropherogram view (B) show recombinant human TMPRSS2 Protein (Catalog # H00007113-Q01) loaded at a serial dilution. A specific band was detected for TMPRSS2 at approximately 45 kDa (as indicated) using 1:50 of Goat Polyclonal (Catalog # NBP1-20984). (C) The calculated dynamic range had an R-squared value of 0.9997 with assay sensitivity down to 6.2 ng/mL. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## Publications

Vimalanathan S, Shehata M, Sadasivam K et al. Broad Antiviral Effects of Echinacea purpurea against SARS-CoV-2 Variants of Concern and Potential Mechanism of Action Microorganisms 2022-10-29 [PMID: 36363737]

Peiffer AL, Garlick JM, Wu Y et al. TMPRSS2 inhibitor discovery facilitated through an in silico and biochemical screening platform bioRxiv 2023-06-27 [PMID: 33791707]

Shook LL, Bordt EA, Meinsohn MC et al. Placental Expression of ACE2 and TMPRSS2 in Maternal Severe Acute Respiratory Syndrome Coronavirus 2 Infection: Are Placental Defenses Mediated by Fetal Sex? The Journal of Infectious Diseases 2021-12-08 [PMID: 34293137]

Saleem W, Ren X, Van Den Broeck W, Nauwynck H. Changes in intestinal morphology, number of mucus-producing cells and expression of coronavirus receptors APN, DPP4, ACE2 and TMPRSS2 in pigs with aging Veterinary Research 2023-04-13 [PMID: 37055856]

Garlick J Innovations in Targeting Dynamic Proteins With Small Molecule Modulators Thesis 2021-01-01 (WB)

Samuel RM, Majd H, Richter MN et al. Androgen Signaling Regulates SARS-CoV-2 Receptor Levels and Is Associated with Severe COVID-19 Symptoms in Men Cell Stem Cell 2020-11-17 [PMID: 33232663]

Ghazizadeh Z, Majd H, Richter M, Samuel R Androgen regulates SARS-CoV-2 receptor levels and is associated with severe COVID-19 symptoms in men bioRxiv 2020-01-01 [PMID: 32511360] (ICC/IF, Human)

Tomlins SA, Laxman B, Dhanasekaran SM et al. Distinct classes of chromosomal rearrangements create oncogenic ETS gene fusions in prostate cancer. Nature 2007-08-02 [PMID: 17671502]





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### Products Related to NBP1-20984

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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