

# Product Datasheet

## Claudin-11 Antibody - BSA Free NBP1-82470

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-82470**

Claudin-11 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. 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>	PBS (pH 7.2), 40% Glycerol

**Product Description**

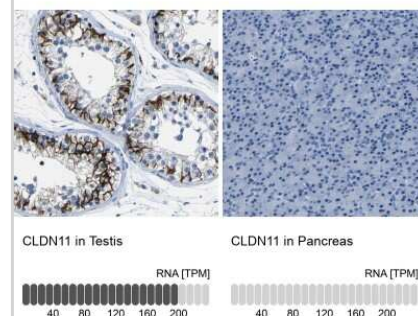
<b>Description</b>	Novus Biologicals Rabbit Claudin-11 Antibody - BSA Free (NBP1-82470) is a polyclonal antibody validated for use in IHC and WB. Anti-Claudin-11 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5010
<b>Gene Symbol</b>	CLDN11
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Rat (89%). Mouse reactivity reported in scientific literature (PMID: 25630681).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: DAQAFGENRFYYTAGSSSPTHAKSAHV

**Product Application Details**

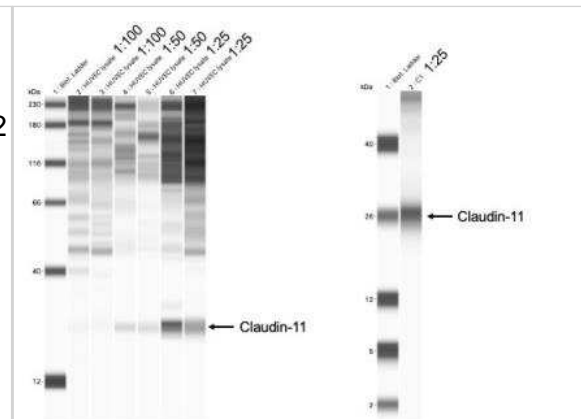
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot Reported in scientific literature (PMID: 26339636), also customer review, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

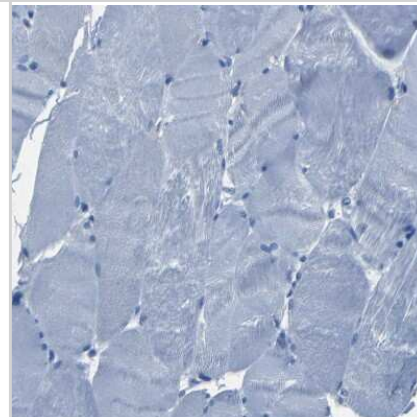
Immunohistochemistry-Paraffin: Claudin-11 Antibody [NBP1-82470] - Analysis in human testis and pancreas tissues using NBP1-82470 antibody. Corresponding CLDN11 RNA-seq data are presented for the same tissues.



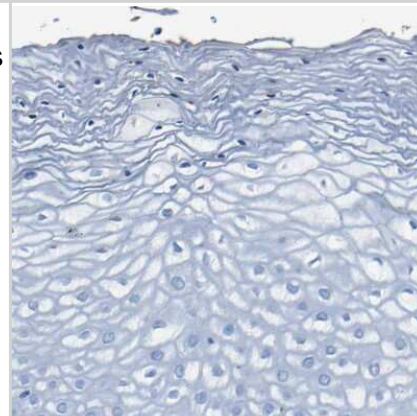
**Western Blot: Claudin-11 Antibody [NBP1-82470] - HUVEC (Human Umbilical Vein Endothelial Cells) lysate.** Three dilutions were tested using the WES 12-230 kDa kit (left panel): Lanes 2-3, 1:100; Lanes 4-5, 1:50; and Lanes 6-7, 1:25. The 1:25 dilution was tested again using the 2-40 kDa (right panel). All test lanes utilized 0.2 mg/mL protein concentrations. The WES anti-rabbit antibody kit was used. WB image submitted by a verified customer review.



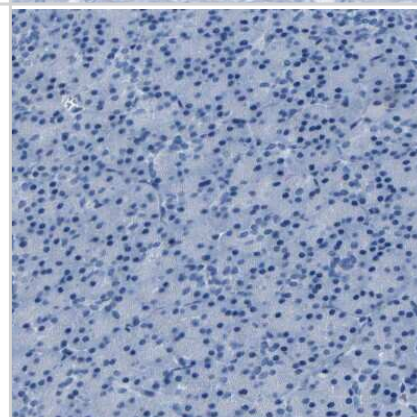
**Immunohistochemistry-Paraffin: Claudin-11 Antibody [NBP1-82470] - Staining of human Skeletal muscle shows no positivity in myocytes as expected.**



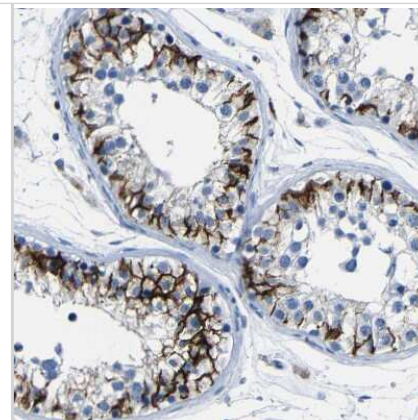
**Immunohistochemistry-Paraffin: Claudin-11 Antibody [NBP1-82470] - Staining of human Cervix shows no positivity in squamous epithelial cells as expected.**



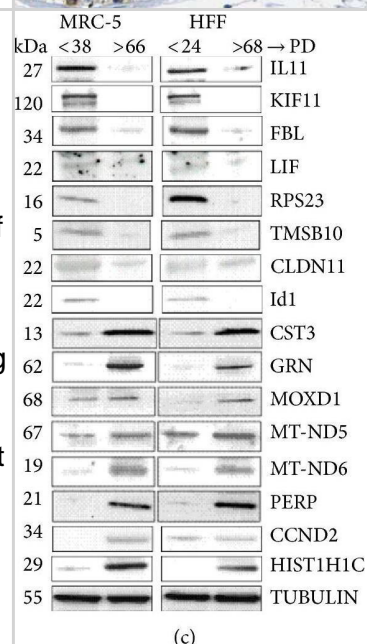
**Immunohistochemistry-Paraffin: Claudin-11 Antibody [NBP1-82470] - Staining of human Pancreas shows no positivity in exocrine glandular cells as expected.**



**Immunohistochemistry-Paraffin: Claudin-11 Antibody [NBP1-82470] -** Staining of human Testis shows strong membranous positivity in cells in seminiferous ducts.



**Western Blot: Claudin-11 Antibody [NBP1-82470] - Comparison of expression changes between young & old MRC-5 & HFF fibroblasts measured with RNA-seq & Western Blots.** (a) 8 genes commonly downregulated & (b) 8 genes commonly upregulated in both cell lines. (a, b) The colors of the bars indicate the measurement technique (blue: RNA-seq; red: Western Blots/protein expression). Solid colored bars represent MRC-5 while shaded boxes represent HFF cells. The height of the bars corresponds to the logarithmic fold-change (FC) of expression between the first & the last PD investigated here (RNA-seq: log<sub>2</sub> RPKM FC; protein: log<sub>2</sub> expression ratio). Error bars indicate standard deviation from the mean. Changes statistically different comparing young & old PD (RNA-seq: DESeq; rRT-PCR/Protein: Student's t-test; n = 3) are indicated with an asterisk: \*p < 0.05, \*\*p < 0.01, & \*\*\*p < 0.001. (c) The blots show the protein expression levels in MRC-5 & HFF cells at young compared to old PDs. The up- or downregulation was signified by the presence or absence of bands in Western Blots. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26339636>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Mapunda JA, Pareja J, Vladymyrov M et al. VE-cadherin in arachnoid and pia mater cells serves as a suitable landmark for in vivo imaging of CNS immune surveillance and inflammation Nat Commun 2023-09-20 [PMID: 37730744] (Immunohistochemistry-Paraffin, Mouse)

Furukawa S, Nagaike M, Ozaki K. Databases for technical aspects of immunohistochemistry. J Toxicol Pathol 2017-01-01 [PMID: 28190929]

MOROKI T, MATSUO S, HATAKEYAMA H et al. Databases for technical aspects of immunohistochemistry-2021 update Journal of Toxicologic Pathology 2021-02-24 [PMID: 33976473]

Marthandan S, Priebe S, Baumgart M et al. Similarities in Gene Expression Profiles during In Vitro Aging of Primary Human Embryonic Lung and Foreskin Fibroblasts. Biomed Res Int 2015-01-01 [PMID: 26339636] (WB, Human)

Anagawa-Nakamura A, Kakimoto K, Miyajima K et al. Immunohistochemical Characterization of Spontaneous Sertoli Cell Clusters in the Seminiferous Tubules of C57BL/6J Mice Toxicol Pathol. 2015-01-27 [PMID: 25630681] (IHC-P, Mouse)

### Details:

Claudin-11 antibody used for IHC-P on transverse section of testes and longitudinal section from epididymis from six-week-old male C57BL/6J mice subjected to 2-week oral dose toxicity study treatment schedule. The immunostaining assay involved - antigen retrieval via boiling the sections for 15 min in 10mM sodium citrate buffer pH 6, primary antibody dilution of 1:100, signal detection with Histofine Simple Stain MAX-PO. In testes, Claudin-11 is expected to express at Sertoli cell tight junctions, wherein, it is considered as a marker for Sertoli cells and in the current study, clusters of cells in the testes as well as some cell aggregates/cell debris in the lumen of the epididymis representing sloughed off Sertoli cells were found positive for Claudin-11 (Figure 2).



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### **Products Related to NBP1-82470**

NBP1-82470PEP	Claudin-11 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

### **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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