

# Product Datasheet

## LRP2 Antibody (CD7D5) - Azide and BSA Free NB110-96417

Unit Size: 0.1 mg

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

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**NB110-96417**

LRP2 Antibody (CD7D5) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CD7D5
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	600 kDa

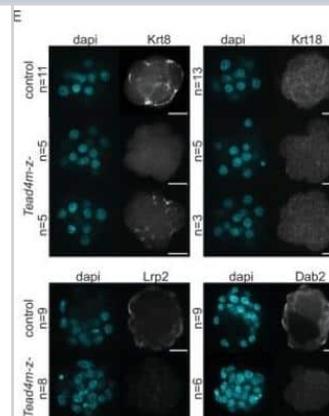
Product Description	
Description	Novus Biologicals Mouse LRP2 Antibody (CD7D5) - Azide and BSA Free (NB110-96417) is a monoclonal antibody validated for use in IHC and ICC/IF. Anti-LRP2 Antibody: Cited in 19 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4036
Gene Symbol	LRP2
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Purified human LRP2.

Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Immunohistochemistry 2-5 ug/ml, Immunocytochemistry/ Immunofluorescence 2-5 ug/ml, Immunohistochemistry-Paraffin 1:200, Immunohistochemistry-Frozen 1:50-1:300

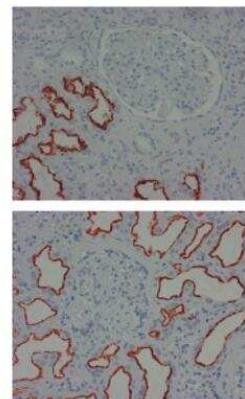


## Images

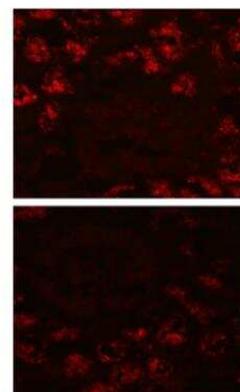
Immunohistochemistry: LRP2 Antibody (CD7D5) [NB110-96417] - Representative immunofluorescence stainings of control (Tead4m-z+) and Tead4 maternal/zygotic mutant (Tead4m-z-) embryos for Krt8 and Krt18 (16 cell stage embryos) and Lrp2 and Dab2 (32 to 64 cell stage embryos). Lrp2 and Dab2 were not detected in earlier stage embryos). n indicates total number of embryos analyzed. Scale bar: 25 um. Image collected and cropped by CiteAb from the following publication ([elifesciences.org/articles/22906](https://elifesciences.org/articles/22906)), licensed under a CC-BY license.



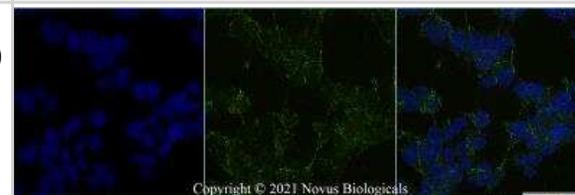
Immunohistochemistry-Paraffin: LRP2 Antibody (CD7D5) [NB110-96417] - Staining (paraffin-embedded tissue-sections fixed in formalin) of Megalin in the brush border of the proximal tubule.



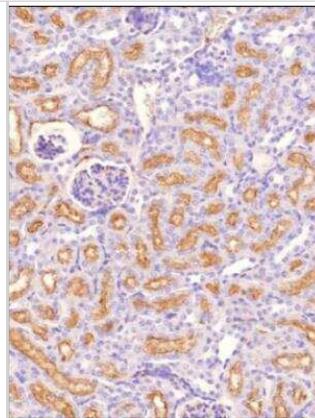
Immunocytochemistry/Immunofluorescence: LRP2 Antibody (CD7D5) [NB110-96417] - Immunofluorescence staining of Megalin in the brush border of the proximal tubule.



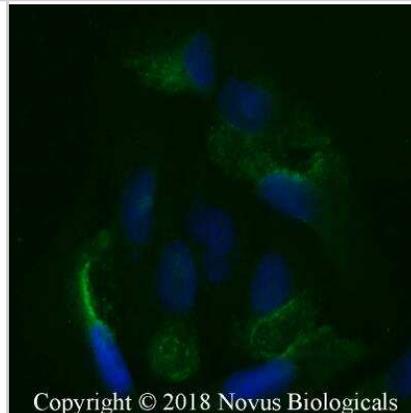
Immunocytochemistry/Immunofluorescence: LRP2 Antibody (CD7D5) [NB110-96417] - Hek293 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-LRP2 Antibody (CD7D5) NB110-96417 at 1 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



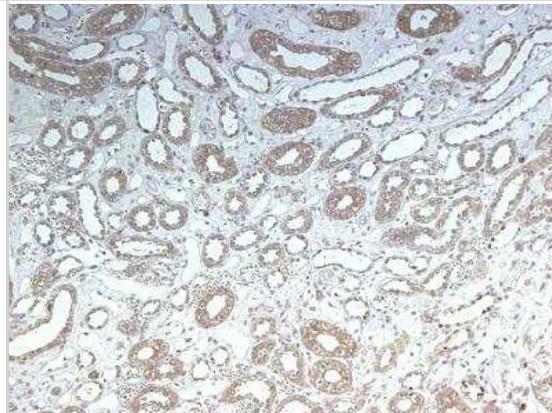
**Immunohistochemistry-Paraffin: LRP2 Antibody (CD7D5) [NB110-96417]**  
 - Analysis of a FFPE tissue section of mouse kidney using 1:200 dilution of LRP2 [CD7D5] antibody. The staining was developed using HRP labeled anti-mouse secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin.



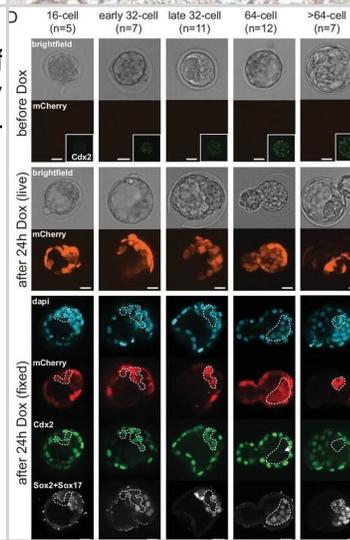
**Immunocytochemistry/Immunofluorescence: LRP2 Antibody (CD7D5) [NB110-96417]** - U2OS cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.1% Saponin. The cells were incubated with anti-LRP2 (CD7D5) at 20 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



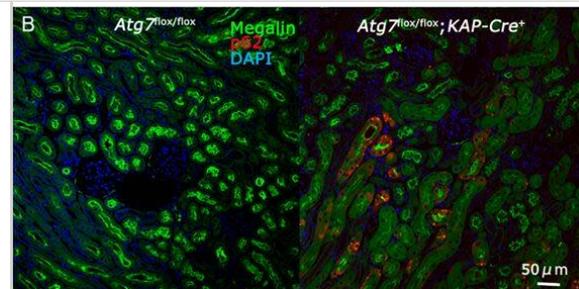
**Immunohistochemistry-Paraffin: LRP2 Antibody (CD7D5) [NB110-96417]**  
 - Staining on human kidney at 1:100, overnight incubation at 4C. Image from a review by a confirmed customer.



**Immunocytochemistry/ Immunofluorescence: LRP2 Antibody (CD7D5) - Azide and BSA Free [NB110-96417]** - ICM & TE progenitors show loss of responsiveness to Hippo signaling manipulation at the same time as they lose responsiveness to positional changes. (D) Dox-inducible DN Lats2-IRES-mCherry transgenic embryos imaged before Dox treatment (top panel) & the same embryo was imaged following 24 hr of Dox live (middle panel) & fixed/stained for lineage markers (bottom panel). A representative embryo is shown for each stage. Live mCherry is shown as an extended focus image, IF stainings shown as single plane images. mCherry positive ICMs in mosaic transgenic embryos circled with a dotted line. Arrow points to a rare ICM cell in a 64 cell stage-induced embryo with weak Cdx2 expression, which also co-expressed an ICM marker. Scale bar: 25  $\mu$ m. n indicates number of transgenic embryos analyzed. Image collected & cropped by CiteAb from the following publication (<https://elifesciences.org/articles/22906>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: LRP2 Antibody (CD7D5) - Azide and BSA Free [NB110-96417] - Impairment of autophagy in Atg7-deficient renal proximal tubular cells. (A) Decrease of Atg7 & increase of LC3-I in 2-month-old Atg7flox/flox;KAP-Cre+ mouse kidney. Atg7 & LC3 Western blot (LC3-I/unconjugated LC3 & LC3-II/lipidated LC3) using whole kidney lysate of Atg7flox/flox;KAP-Cre+ mice. As a control, Atg7flox/flox mouse kidney was employed. The intensity of each band of Atg7 &  $\beta$ -actin was estimated by densitometry. The ratio of Atg7 to  $\beta$ -actin was calculated. The amount of Atg7-positive signals in the Atg7flox/flox;KAP-Cre+ mice kidney was about 63% lower than that in the Atg7flox/flox mice kidney (n = 3). Note that LC3-I was increased in the Atg7flox/flox;KAP-Cre+ mouse kidney. (B) The massive accumulation of p62 in kidneys of 2-month old Atg7flox/flox;KAP-Cre+ mouse. The cortico-medullary region of each kidney in 2 month-old Atg7flox/flox;KAP-Cre+ mouse & Atg7flox/flox mouse was recognized with anti-p62 antibody (red). As a marker of renal proximal tubular cells, megalin (green) was employed. Nuclei were stained with 4',6-diamidino-2-phenylindole (DAPI; blue). (C) Quantification of p62 positive area of 2-month-old Atg7flox/flox;KAP-Cre+ (n = 5) & Atg7flox/flox kidney (n = 4, \*\*\* p < 0.01). Data in graphs are expressed as the mean  $\pm$  SEM. Statistical analyses were performed using a student's t-test. (D) Age-dependent accumulation of p62 (red) in the Atg7flox/flox;KAP-Cre+ mouse kidney in 1-, 2-, 6-, & 9-month-old Atg7flox/flox;KAP-Cre+ (lower) & Atg7flox/flox (upper) mouse kidney. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31881660>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Posfai E, Petropoulos S, de Barros FR et al. Position- and Hippo signaling-dependent plasticity during lineage segregation in the early mouse embryo. *Elife*. 2017-02-22 [PMID: 28226240] (Immunohistochemistry, Mouse, Rat)

Gujarati NA, Frimpong BO, Zaidi M et al. Podocyte-specific KLF6 primes proximal tubule CaMK1D signaling to attenuate diabetic kidney disease *Nature Communications* 2024-09-13 [PMID: 39271683]

Bantounas I, Rooney K, Lopes F et al. Human pluripotent stem cell-derived kidney organoids reveal tubular epithelial pathobiology of heterozygous HNF1B-associated dysplastic kidney malformations *Thesis* 2023-03-15

Wangford RI Establishing a Drug Screening Platform for Polycystic Kidney Disease in Kidney Organoids *Thesis* 2023-01-01 (IHC-P)

Lian E, Pietrobon A, Stanford WL Differentiation and single-cell RNA-seq analyses of human pluripotent-stem-cell-derived renal organoids *STAR protocols* 2023-05-22 [PMID: 37220001] (ICC/IF, Human)

Polesel M, Kaminska M, Haenni D et al. Spatiotemporal organisation of protein processing in the kidney *Nature communications* 2022-09-29 [PMID: 36175561] (IF/IHC, Mouse)

Pietrobon A, Yockell-Lelievre J, Flood TA, Stanford WL Renal organoid modeling of tuberous sclerosis complex reveals lesion features arise from diverse developmental processes *Cell reports* 2022-07-05 [PMID: 35793620] (IHC-WhMt, Human)

Details:

Sample type: Renal organoids

Sander V, Przepiorski A, Crunk AE et al. Protocol for Large-Scale Production of Kidney Organoids from Human Pluripotent Stem Cells *STAR protocols* 2020-12-18 [PMID: 33377044] (IF/IHC, Human)

Seo JA, Kang MC, Yang WM et al. Apolipoprotein J is a hepatokine regulating muscle glucose metabolism and insulin sensitivity *Nat Commun* 2020-04-24 [PMID: 32332780] (PLA, Mouse)

Suzuki C, Tanida I, Oliva Trejo JA, et al. Autophagy Deficiency in Renal Proximal Tubular Cells Leads to an Increase in Cellular Injury and Apoptosis under Normal Fed Conditions *Int J Mol Sci* 2019-12-25 [PMID: 31881660] (IF/IHC, ICC/IF, Mouse)

Fels J, Scharner B, Zarbock R, Zavala Guevara IP et al. Cadmium Complexed with beta 2-Microglobulin, Albumin and Lipocalin-2 rather than Metallothionein Cause Megalin:Cubilin Dependent Toxicity of the Renal Proximal Tubule *Int J Mol Sci* 2019-05-14 [PMID: 31091675] (ICC/IF, Rat)

Kinguchi, S;Wakui, H;Azushima, K;Haruhara, K;Koguchi, T;Ohki, K;Uneda, K;Matsuda, M;Haku, S;Yamaji, T;Yamada, T;Kobayashi, R;Minegishi, S;Ishigami, T;Yamashita, A;Fujikawa, T;Tamura, K; Effects of ATRAP in Renal Proximal Tubules on Angiotensin-Dependent Hypertension *J Am Heart Assoc* 2019-04-16 [PMID: 30977419] (IF/IHC, Mouse)

More publications at <http://www.novusbio.com/NB110-96417>



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### **Products Related to NB110-96417**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-39033PEP	LRP2 Recombinant Protein Antigen

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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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