

# Product Datasheet

## Neprilysin/CD10 Antibody - BSA Free NBP2-15771

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 9/25/2025 v.20.1

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**NBP2-15771**

Neprilysin/CD10 Antibody - BSA Free

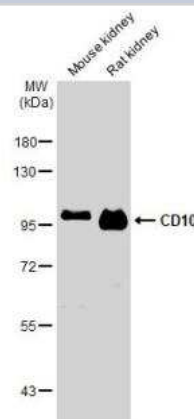
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 20% Glycerol
<b>Target Molecular Weight</b>	86 kDa

Product Description	
<b>Description</b>	Novus Biologicals Rabbit Neprilysin/CD10 Antibody - BSA Free (NBP2-15771) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Neprilysin/CD10 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	4311
<b>Gene Symbol</b>	MME
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: Canine (89%), Rabbit (88%), Bovine (86%).
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of human Neprilysin/CD10. The exact sequence is proprietary.

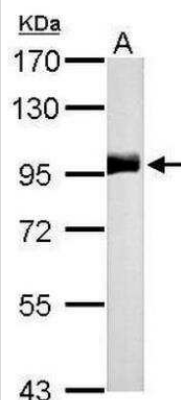
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID: 30768735), Immunohistochemistry-Paraffin 1:100-1:1000

**Images**

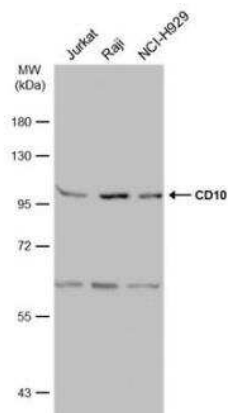
Western Blot: Neprilysin/CD10 Antibody [NBP2-15771] - Various tissue extracts (50 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD10 antibody [N2C1], Internal diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



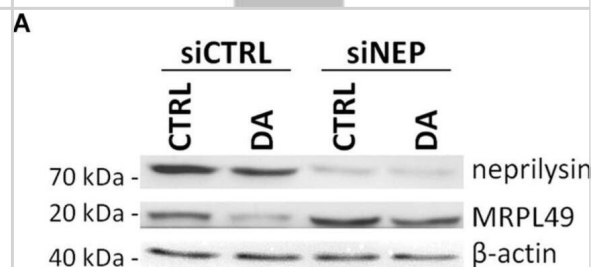
Western Blot: Neprilysin/CD10 Antibody [NBP2-15771] - A. 50 ug rat kidney lysate/extract 7.5 % SDS-PAGE CD10 antibody [N2C1], Internal dilution: 1:500



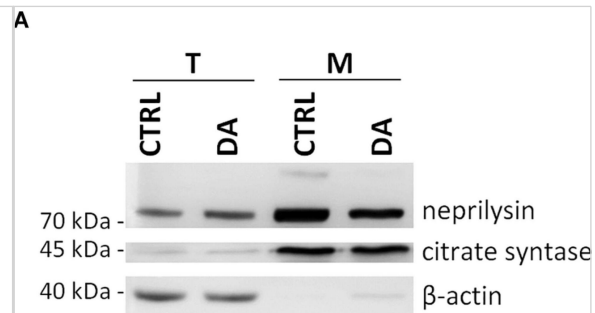
Western Blot: Neprilysin/CD10 Antibody [NBP2-15771] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with CD10 antibody [N2C1], Internal diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



MRPL49 protein is a substrate of neprilysin. (A) Representative WB analysis showing the rescue of MRPL49 levels, after neprilysin knock-down (KD). siCTRL: pool of control siRNAs. siNEP: pool of neprilysin-silencing siRNAs. (B) Relative fold-change in the levels of neprilysin protein in both controls (siCTRL) and neprilysin-silenced (siNEP) cells upon DA treatment, showing the effectiveness of the KD. Three biological replicates (n=3). Error bars: SEM. Statistical analysis performed by two-way ANOVA, to assess the effects of both "KD" (siCTRL vs. siNEP) and "treatment" (CTRL vs. DA). The only significant source of variation was "KD" ( $p = 0.004$ ;  $F = 15.98$ ). (C) Relative fold-change in the levels of MRPL49 protein in siCTRL and siNEP cells upon DA treatment, showing the rescue of the levels of MRPL49 upon neprilysin KD. Three biological replicates (n=3). Error bars: SEM. Statistical analysis performed by two-way ANOVA. Both "treatment" ( $p = 0.0057$ ;  $F = 14.02$ ) and "interaction" ( $p = 0.040$ ;  $F = 5.98$ ) resulted to be significant sources of variation. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31417398>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Neprilysin expression and localization in SH-SY5Y cells. (A) Representative WB analysis showing the presence of neprilysin in SH-SY5Y cells (T: total extracts) and its enrichment in mitochondrial isolates (M). (B) Relative fold-change in the levels of neprilysin in both total (T) and mitochondrial (M) extracts upon DA treatment, showing the significant enrichment of neprilysin in the mitochondrial fraction. Normalization was based on total protein amount per lane. Three biological replicates (n=3). Error bars: SEM. Statistical analysis performed by two-way ANOVA, to assess the effects of both "localization" (T vs. M) and "treatment" (CTRL vs. DA). The only significant source of variation was "localization" ( $p = 0.0002$ ;  $F = 40.55$ ). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31417398>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Fifield B. A, Talia J, et al. Cyclin-like proteins tip regenerative balance in the liver to favour cancer formation. *Carcinogenesis* 2020-07-10 [PMID: 31574533] (IF/IHC, Mouse)

Zeng Y, Li Y, Shen H Et Al. Tripchlorolide attenuates beta-amyloid generation by inducing NEP activity in N2a/APP695 cells *Translational neuroscience* 2021-01-01 [PMID: 34316383] (WB)

Ni LH, Tang RN, Yuan C et al. Cinacalcet attenuated bone loss via inhibiting parathyroid hormone-induced endothelial-to-adipocyte transition in chronic kidney disease rats *Ann Transl Med* 2019-07-01 [PMID: 31475182] (WB, Rat)

Yang Z, Kuboyama T, Tohda C. Naringenin promotes microglial M2 polarization and Ab degradation enzyme expression *Phytother Res* 2019-02-15 [PMID: 30768735] (ICC/IF, Mouse)



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### **Products Related to NBP2-15771**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit 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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