## RD SYSTEMS a biotechne brand

# Human/Mouse Neprilysin/CD10 Antibody

Monoclonal Rat IgG<sub>2B</sub> Clone # 200103 Catalog Number: MAB1126

DESCRIPTION

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Species Reactivity	Human/Mouse		
Specificity	tects human and mouse Neprilysin/CD10 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant man ECE-2 or recombinant mouse Kell is observed.		
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 200103		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	S. <i>frugiperda</i> insect ovarian cell line <i>Sf</i> 21-derived recombinant mouse Neprilysin/CD10 Tyr52-Trp750 Accession # Q61391		
Formulation	ation Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.		

### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended Concentration	Sample		
Western Blot	1 µg/mL	See Below		
Immunohistochemistry	8-25 μg/mL	See Below		

## DATA



Detection of Human and Mouse Neprilysin/CD10 by Western Blot. Western blot shows lysates of LNCaP human prostate cancer cell line and PC-3 human prostate cancer cell line. PVDF membrane was probed with 1 µg/mL of Rat Anti-Human/Mouse Neprilysin/CD10 Monoclonal Antibody (Catalog # MAB1126) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). For additional reference, Recombinant Mouse Neprilysin (Catalog # 1126-ZN) (5 and 50 ng/lane) and Recombinant Human Neprilysin (CHO-expressed) (Catalog # 1182-ZNC) (5 and 50 ng/lane) were included. Specific bands were detected for Neprilysin/CD10 at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### Immunohistochemistry



Neprilysin/CD10 in Human Kidney. Neprilysin/CD10 was detected in immersion fixed paraffin-embedded sections of human kidney using Rat Anti-Human/Mouse Neprilysin/CD10 Monoclonal Antibody (Catalog # MAB1126) at 0.5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC005). Tissue was stained using DA8 (brown) and counterstained with hematoxylin (blue). Specific staining was localized to convoluted tubules and glomeruli. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>		

#### BACKGROUND

Neprilysin is also known as CALLA and CD10. It is a zinc metalloprotease expressed at the cell surface that cleaves a variety of bioactive peptides such as enkephalins, atrial natriuretic peptide and amyloid β peptide.

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