

For Research Use Only

# NPR1 Recombinant monoclonal antibody

Catalog Number:87831-1-RR



## Basic Information

<b>Catalog Number:</b> 87831-1-RR	<b>GenBank Accession Number:</b> NM_008727.5	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 18160	<b>CloneNo.:</b> 251242G3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P18293	<b>Recommended Dilutions:</b> WB: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> natriuretic peptide receptor 1	
<b>Immunogen Catalog Number:</b> EG2985	<b>Calculated MW:</b> 119 kDa	
	<b>Observed MW:</b> 119-140 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse testis tissue, mouse lung tissue, mouse ovary tissue
<b>Species Specificity:</b> mouse	

## Background Information

NPR1(Atrial natriuretic peptide receptor 1), also named as NPRA , is a transmembrane protein expressed in the vascular endothelium. Activation of NPRA requires a binding of natriuretic peptides NPPA (ANP) or NPPB (BNP) to its extracellular domain and this promotes the production of cyclic guanosine monophosphate (cGMP), which in turn activates protein kinase cGMP-dependent 1 (PRKG1 or commonly used as PKG).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

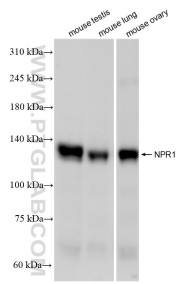
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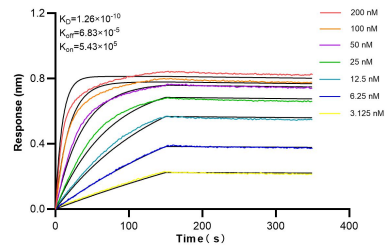
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87831-1-RR (Npr1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87831-1-RR against Mouse NPR1 were performed. The affinity constant is 0.126 nM.