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Datasheet for ABIN6144783  
**anti-NPR1 antibody (AA 260-470)**

1 Image

Overview

Quantity:	100 µL
Target:	NPR1
Binding Specificity:	AA 260-470
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NPR1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 260-470 of human NPR1 (NP_000897.3).
Sequence:	EAGLCGEDYV FFHLDIFGQS LQGGQGAPR RPWERGDGQD VSARQAFQAA KIITYKDPDN PEYLEFLKQL KHLAYEQFNF TMEDGLVNTI PASFHDGLLL YIQAVTETLA HGGTVTDGEN ITQRMWNRSF QGVTGYLKID SSGDRETDfs LWDMDPENGA FRVVLNYNGT SQELVAVSGR KLNWPLGYPP PDIPKCGFDN EDPACNQDHL S
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

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Target: NPR1

Alternative Name: NPR1 ([NPR1 Products](#))

Background: Guanylyl cyclases, catalyzing the production of cGMP from GTP, are classified as soluble and membrane forms (Garbers and Lowe, 1994 [PubMed 7982997]). The membrane guanylyl cyclases, often termed guanylyl cyclases A through F, form a family of cell-surface receptors with a similar topographic structure: an extracellular ligand-binding domain, a single membrane-spanning domain, and an intracellular region that contains a protein kinase-like domain and a cyclase catalytic domain. GC-A and GC-B function as receptors for natriuretic peptides, they are also referred to as atrial natriuretic peptide receptor A (NPR1) and type B (NPR2, MIM 108961). Also see NPR3 (MIM 108962), which encodes a protein with only the ligand-binding transmembrane and 37-amino acid cytoplasmic domains. NPR1 is a membrane-bound guanylate cyclase that serves as the receptor for both atrial and brain natriuretic peptides (ANP (MIM 108780) and BNP (MIM 600295), respectively).[supplied by OMIM, May 2009],NPR1,ANPRA,ANPa,GUC2A,GUCY2A,NPRA,Signal Transduction,G protein signaling,G-Protein-Coupled Receptors(GPCR),Cardiovascular,Angiogenesis,Blood,Blood Pressure regulation,NPR1

Molecular Weight: 118 kDa

Gene ID: 4881

UniProt: [P16066](#)

## Application Details

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Application Notes: WB,1:500 - 1:2000

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

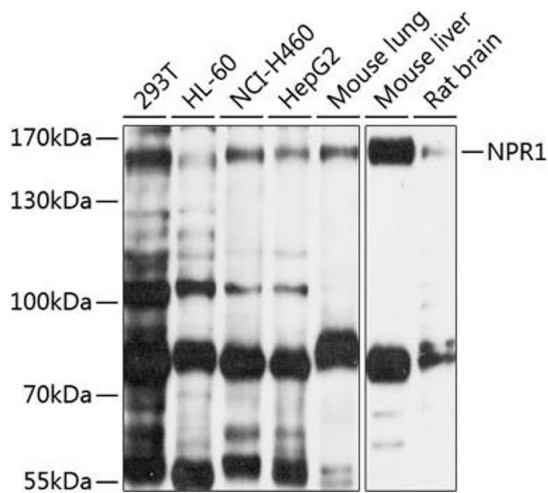
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

## Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using NPR1 antibody (ABIN6132224, ABIN6144783, ABIN6144784 and ABIN6214701) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 40s.