**NPPA Polyclonal ANTIBODY**

**Catalog Number:** 27426-1-AP

### Basic Information

**Catalog Number:** 27426-1-AP  
**Size:** 50 μg/150 μl  
**Source:** Rabbit  
**Isotype:** IgG  
**Purification Method:** Antigen affinity purification  
**Immunogen Catalog Number:** AG26692  
**GenBank Accession Number:** BC006693  
**GeneID (NCBI):** 4878  
**Full Name:** natriuretic peptide precursor A  
**Calculated MW:** 153aa, 17 kDa  
**Observed MW:** 19 kDa

### Applications

**Tested Applications:** IHC, WB, ELISA  
**Cited Applications:** WB  
**Species Specificity:** human, mouse  
**Cited Species:** mouse

**Recommended Dilutions:**  
**WB:** 1:500-1:1000  
**IHC:** 1:50-1:500

**Positive Controls:**  
**WB:** mouse heart;  
**IHC:** human heart tissue

**Note:** suggested antigen retrieval with TE buffer pH 9.5; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

### Background Information

Natriuretic peptide precursor-A (NPPA) is an early and specific marker for functional myocardium of the embryonic heart. This protein is synthesized as a large precursor (containing a signal peptide), which is processed to release a peptide from the N-terminus with similarity to vasoactive peptide, cardioactive, and another peptide from the C-terminus with natriuretic-diuretic activity. NPPA is expressed primarily in the heart, where the expression level is higher in atria than ventricles. Low levels of ANP expression have been detected in other tissues, including the lung, aorta, brain, adrenal gland, kidney and uterus.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PMID</th>
<th>Journal</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>Jiali Nie</td>
<td>30489465</td>
<td>J Cell Physiol</td>
<td>WB</td>
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### Storage

**Storage:** Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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For technical support and original validation data for this product, please contact:  
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E: proteintech@ptglab.com  
W: ptglab.com

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mouse heart tissue were subjected to SDS-PAGE followed by western blot with 27426-1-AP (NPPA antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human heart tissue slide using 27426-1-AP (NPPA antibody) at dilution of 1:200 (under 10x lens).

Immunohistochemistry of paraffin-embedded human heart tissue slide using 27426-1-AP (NPPA antibody) at dilution of 1:200 (under 40x lens).