# Natriuretic Peptide B / NPPB Antibody

Mouse Monoclonal Antibody [Clone NPPB/4493]

| Catalog No | Format | Size |
|---|---|---|
| 4879-MSM3-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 4879-MSM3-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 4879-MSM3-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

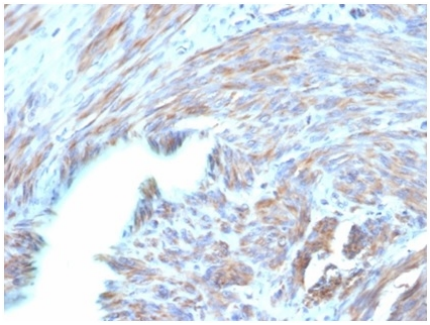
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

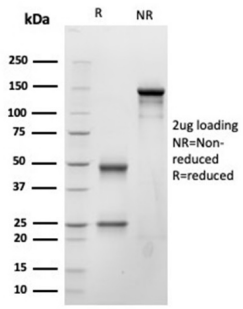
| | |
|---|---|
| **Clone** | NPPB/4493 |
| **Gene Name** | NPPB |
| **Immunogen** | Recombinant fragment of human NPPB (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | 25-36kDa (glycosylated BNP precursor); 12kDa (deglycosylated mature BNP) |
| **Cellular Localization** | Secreted |
| **Species Reactivity** | Human |
| **Positive Control** | Human heart, liver or uterus. |

**Optimal dilution for a specific application should be determined.*

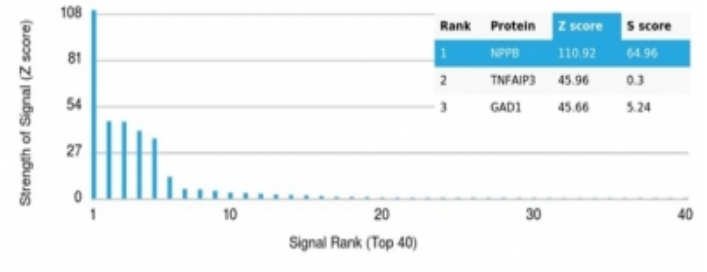
## Product Images for Natriuretic Peptide B / NPPB Antibody



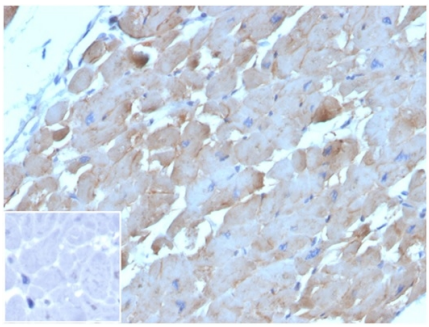
Inset: PBS instead of primary antibody; secondary only negative control.




Formalin-fixed, paraffin-embedded human uterusstained with NatriureticPeptide B Mouse Monoclonal Antibody (NPPB/4493).




HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



Formalin-fixed, paraffin-embedded human heart stained with Natriuretic Peptide BMouse Monoclonal Antibody (NPPB/4493).

## Specificity & Comments

Natriuretic peptides comprise a family of three structurally related molecules: atrial natriuretic peptide (ANP), brain natriuretic peptide (BNP) and C-type natriuretic peptide (CNP). ANP and BNP act mainly as cardiac hormones, produced primarily by the atrium and ventricle, respectively, while the gene encoding C-type natriuretic peptide is expressed mainly in the brain. These peptides possess potent natriuretic, diuretic and vasodilating activities and are implicated in body fluid homeostasis and blood pressure control. ANP, BNP and CNP are highly homologous within the 17-residue ring structure formed by an intramolecular disulfide linkage. The genes which encode for ANP and BNP map to human chromosome 1p36.22. The gene which encodes for CNP maps to human chromosome 2q37.1.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Cardiovascular

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.