

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

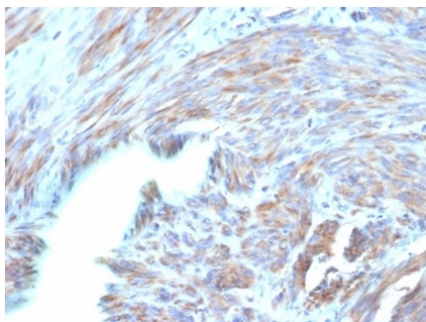
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

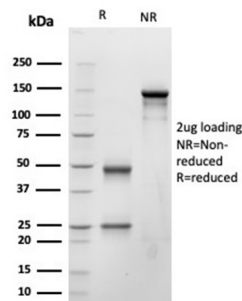
Clone	NPPB/4493
Gene Name	NPPB
Immunogen	Recombinant fragment of human NPPB (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	25-36kDa (glycosylated BNP precursor); 12kDa (deglycosylated mature BNP)
Cellular Localization	Secreted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

*Optimal dilution for a specific application should be determined.

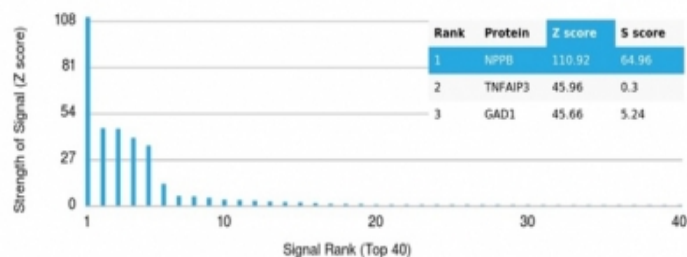
Product Images for Natriuretic Peptide B / NPPB Antibody



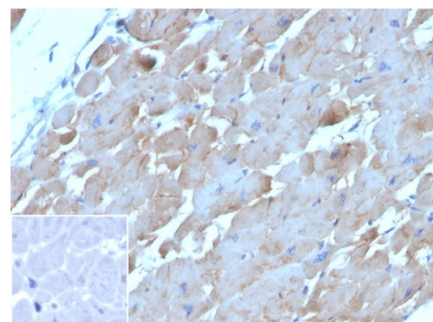
Inset: PBS instead of primary antibody; secondary only negative control.



Formalin-fixed, paraffin-embedded human uterus stained with Natriuretic Peptide B Mouse Monoclonal Antibody (NPPB/4493).



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



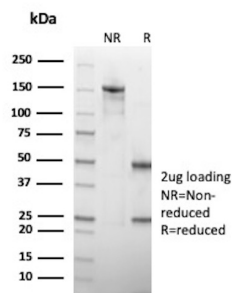
Formalin-fixed, paraffin-embedded human heart stained with Natriuretic Peptide B Mouse Monoclonal Antibody (NPPB/4493).

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.

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.



SDS-PAGE Analysis of Purified Natriuretic peptides B Mouse Monoclonal Antibody (NPPB/4493). Confirmation of Purity and Integrity of Antibody.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% 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