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NPPB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant NPPB.
Catalog # AT3086a

Product Information

Application	WB, IP
Primary Accession	P16860
Other Accession	BC025785
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	2D11
Calculated MW	14726

Additional Information

Gene ID	4879
Other Names	Natriuretic peptides B, Gamma-brain natriuretic peptide, Brain natriuretic peptide 32, BNP(1-32), BNP-32, BNP(1-30), BNP(1-29), BNP(1-28), BNP(2-31), BNP(3-32), BNP(3-30), BNP(3-29), BNP(4-32), BNP(4-31), BNP(4-30), BNP(4-29), BNP(4-27), BNP(5-32), BNP(5-31), BNP(5-29), NPPB
Target/Specificity	NPPB (AAH25785, 1 a.a. ~ 134 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IP~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NPPB Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

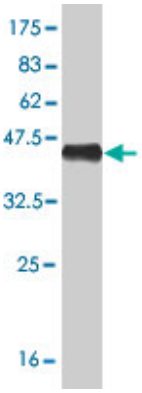
Background

This gene is a member of the natriuretic peptide family and encodes a secreted protein which functions as a cardiac hormone. The protein undergoes two cleavage events, one within the cell and a second after secretion into the blood. The protein's biological actions include natriuresis, diuresis, vasorelaxation, inhibition of renin and aldosterone secretion, and a key role in cardiovascular homeostasis. A high concentration of this protein in the bloodstream is indicative of heart failure. Mutations in this gene have been associated with postmenopausal osteoporosis.

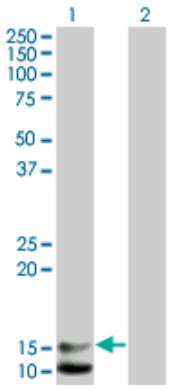
References

1.The arrhythmogenic effect of self-assembling nanopeptide hydrogel scaffolds on neonatal mouse cardiomyocytes.Chiu YW, Chen WP, Su CC, Lee YC, Hsieh PH, Ho YLNanomedicine. 2014 Jan 31. pii: S1549-9634(14)00029-X. doi: 10.1016/j.nano.2014.01.005.

Images

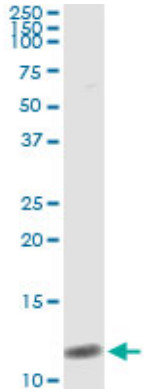


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (40.48 KDa) .



Western Blot analysis of NPPB expression in transfected 293T cell line by NPPB monoclonal antibody (M01), clone 2D11.

Lane 1: NPPB transfected lysate(14.726 KDa).
Lane 2: Non-transfected lysate.



Immunoprecipitation of NPPB transfected lysate using anti-NPPB monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with NPPB MaxPab rabbit polyclonal antibody.