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Mouse Anti-NT-proBNP/NPPB antibody

SLM-10879M

Product Name	NT-proBNP/NPPB
Chinese Name	人脑钠肽前体蛋白单克隆抗体
Alias	Gamma brain natriuretic peptide; Natriuretic peptide brain type; Natriuretic peptide precursor B; Natriuretic peptides B; NPPB; NPPB protein; ANFB_HUMAN; Natriuretic peptides B.proBNP.
Research Area	Cardiovascular Signal transduction Growth factors and hormones
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	11E6-1H4
React Species	Human
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	8.5kDa
Cellular localization	Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human BNP 32
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	Brain natriuretic peptide (BNP), also known as B-type natriuretic peptide, is a hormone secreted by cardiomyocytes in the heart ventricles in response to

stretching caused by increased ventricular blood volume.
The 32-amino acid polypeptide BNP is secreted attached to a 76–amino acid N-terminal fragment in the prohormone called NT-proBNP (BNPT), which is biologically inactive. Once released, BNP binds to and activates the atrial natriuretic factor receptor NPRA, and to a lesser extent NPRB, in a fashion similar to atrial natriuretic peptide (ANP) but with 10-fold lower affinity. The biological half-life of BNP, however, is twice as long as that of ANP, and that of NT-proBNP is even longer, making these peptides better targets than ANP for diagnostic blood testing.

Function:
Cardiac hormone which may function as a paracrine antifibrotic factor in the heart. Also plays a key role in cardiovascular homeostasis through natriuresis, diuresis, vasorelaxation, and inhibition of renin and aldosterone secretion. Specifically binds and stimulates the cGMP production of the NPR1 receptor. Binds the clearance receptor NPR3.

Subcellular Location:
Secreted.

Tissue Specificity:
Brain and also in atria, but at much lower levels than ANP.

Similarity:
Belongs to the natriuretic peptide family.

SWISS:
P16860

Gene ID:
4879

Database links:

Entrez Gene: 4879 Human

Omim: 600295 Human

SwissProt: P16860 Human

Unigene: 219140 Human

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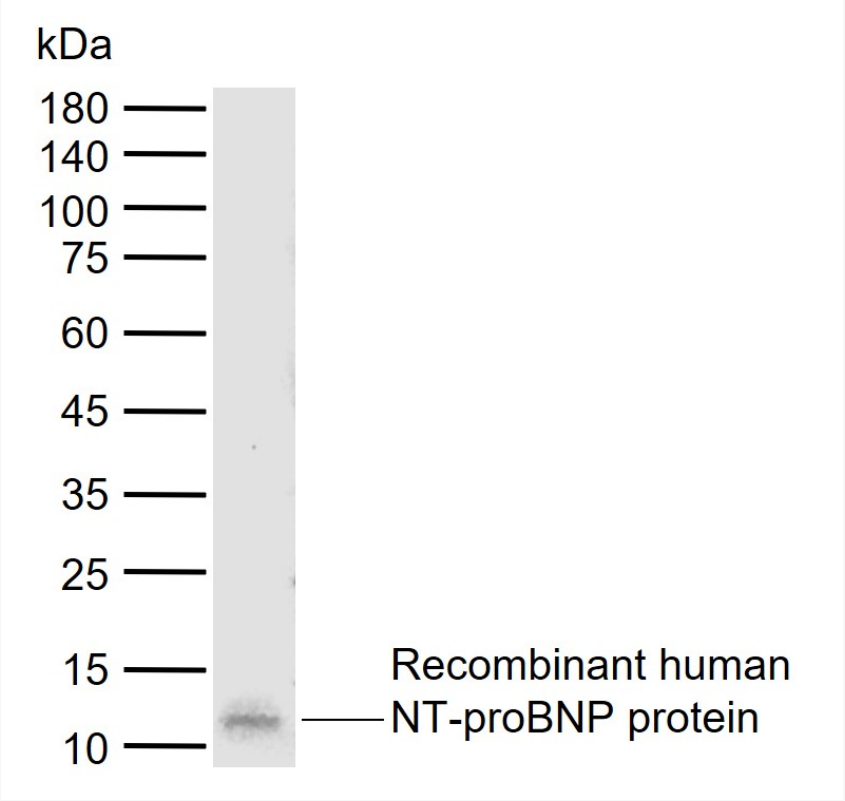
Product Picture



Sample:

Lane 1: Recombinant human NT-proBNP protein

Primary: Anti-NT-proBNP/NPPB (SLM-10879M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 8.5 kDa

Observed band size: 11 kDa