

Product datasheet

Anti-BNP antibody ab47685

1 References

Overview

Product name	Anti-BNP antibody
Description	Rabbit polyclonal to BNP
Host species	Rabbit
Tested applications	Suitable for: ELISA, RIA
Species reactivity	Reacts with: Rat
Immunogen	Synthetic peptide: SGDSAFRIQE RLRNSKMAHS SSCFGQKIDR IGAVSRLGCD GLRLF conjugated to KLH via carboxyl group, corresponding to C terminal amino acids 77-121 of Rat BNP. Run BLAST with ExPASy Run BLAST with NCBI

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.01% Thimerosal (merthiolate) Constituents: 50% Glycerol, PBS, pH 7.5
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab47685** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution.
RIA		Use at an assay dependent dilution.

Target

Relevance

Brain natriuretic peptide (BNP) circulates in blood as a peptide hormone with natriuretic, vasodilatory and renin inhibitory properties. BNP is secreted predominantly by the left ventricular myocytes in response to volume expansion and pressure overload. BNP belongs to a family of structurally similar peptide hormones, which includes atrial natriuretic peptide (ANP), BNP, C type natriuretic peptide (CNP) and urodilatin. These peptides are characterized by a common 17 amino acid ring structure with a disulfide bond between two cysteine residues. This ring structure shows high homology between different natriuretic peptides (eleven of the 17 amino acid residues are homologous in the ring of each of the natriuretic peptides). BNP is a 32 amino acid peptide with disulfide bond between the cysteine residues Cys10 and Cys26. In earlier studies it has been demonstrated that BNP concentration in blood increases with the severity of congestive heart failure. Quantitative measurement of BNP in blood provides an objective indicator of congestive heart failure severity.

Cellular localization

Secreted

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