

### Anti-BNP antibody [50E1] ab20984

#### 3 References

#### Overview

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<b>Product name</b>	Anti-BNP antibody [50E1]
<b>Description</b>	Mouse monoclonal [50E1] to BNP
<b>Host species</b>	Mouse
<b>Specificity</b>	ab20984 detects Human BNP and proBNP.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, ICC/IF, WB, Sandwich ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human BNP conjugated to bovine serum albumin.
<b>Epitope</b>	ab20984 binds to epitope aa 26-32 of Brain natriuretic peptide 32 (CKVLRRH).
<b>General notes</b>	<p>This product has switched from ascites to TCS on 29<sup>th</sup> June 2020. Stock up to lot GR3225984 has been generated from ascites.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	50E1
<b>Myeloma</b>	Sp2/0
<b>Isotype</b>	IgG1

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab20984 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 concentration.
ICC/IF		Use at an assay dependent concentration. PubMed: 21482747
WB		Use at an assay dependent concentration.
Sandwich ELISA		Use at an assay dependent concentration. Can be used as capture antibody

## Target

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### 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 cystein 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

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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