Product datasheet

Anti-BNP antibody [50E1] ab20984

3 References

Overview

Product name: Anti-BNP antibody [50E1]
Description: Mouse monoclonal [50E1] to BNP
Host species: Mouse
Specificity: ab20984 detects Human BNP and proBNP.
Tested applications: Suitable for: ELISA, Sandwich ELISA, ICC/IF, WB
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide corresponding to Human BNP conjugated to bovine serum albumin.
Epitope: ab20984 binds to epitope 26-32.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.1% Sodium Azide
Constituents: PBS, pH 7.4
Purity: Ascites
Purification notes: Purified from ascites.
Clonality: Monoclonal
Clone number: 50E1
Myeloma: Sp2/0
Isotype: IgG1

Applications

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.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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1
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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td>Use at an assay dependent dilution. Can be paired for ELISA with Mouse monoclonal [16F3] to proBNP (HRP) (ab13124).</td>
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<tr>
<td>Sandwich ELISA</td>
<td>Use at an assay dependent dilution. Can be paired for Sandwich ELISA with Mouse monoclonal [24C5] to BNP (HRP) (ab14699). Can be used as capture antibody</td>
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<tr>
<td>ICC/IF</td>
<td>Use at an assay dependent concentration. PubMed: 21482747</td>
<td></td>
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<tr>
<td>WB</td>
<td>Use at an assay dependent dilution. Predicted molecular weight: 15 kDa.</td>
<td></td>
</tr>
</tbody>
</table>

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 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

Secreted

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