

ARG10407
anti-NT-proBNP antibody [13G12]Package: 200 µg
Store at: -20°C

Summary

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| Product Description | Mouse Monoclonal antibody [13G12] recognizes NT-proBNP |
| Tested Reactivity | Hu |
| Tested Application | ELISA, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 13G12 |
| Isotype | IgG2a |
| Target Name | NT-proBNP |
| Species | Human |
| Conjugation | Un-conjugated |
| Alternate Names | Natriuretic peptide B; BNP; BNP-32; Gamma-brain natriuretic peptide; Ventricular natriuretic peptide; brain natriuretic peptide; B-type natriuretic peptide; BNPT |

Application Instructions

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| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
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Properties

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| Form | Liquid |
| Purification | Protein A purified |
| Purification Note | Purified from cell culture supernatant. |
| Concentration | 1.0-2.0 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Gene Symbol | NPPB |
| Gene Full Name | N-terminal prohormone of brain natriuretic peptide |
| 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. The presence of myocardial injury is a significant predictor of mortality in hospitalized coronavirus disease 2019 (COVID-19) patients, and there is evidence of increased levels of natriuretic peptide B in hospitalized non-survivor COVID-19 patients. The protein also acts as an antimicrobial peptide with antibacterial and antifungal activity. Mutations in this gene have been associated with postmenopausal osteoporosis. [provided by RefSeq, Aug 2020]

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| Function | May affect cardio-renal homeostasis (PubMed:17372040). Able to promote the production of cGMP although its potency is very low compared to brain natriuretic peptide 32 (PubMed:17372040). [UniProt] |
| Calculated Mw | 15 kDa |
| PTM | The brain natriuretic peptide 32 form is cleaved at Pro-104 by the prolyl endopeptidase FAP (seprase) activity (in vitro). [UniProt] |
| Cellular Localization | Secreted. [UniProt] |