

Product Datasheet

Cyclin B1 Antibody (SPM619) [mFluor Violet 450 SE] NBP3-11598MFV450

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP3-11598MFV450

Cyclin B1 Antibody (SPM619) [mFluor Violet 450 SE]

| Product Information | |
|------------------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | Please see the vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at 4C in the dark. |
| Clonality | Monoclonal |
| Clone | SPM619 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG1 Kappa |
| Conjugate | mFluor Violet 450 SE |
| Purity | Protein A or G purified |
| Buffer | 50mM Sodium Borate |
| Product Description | |
| Host | Mouse |
| Gene ID | 891 |
| Gene Symbol | CCNB1 |
| Species | Human, Mouse |
| Specificity/Sensitivity | It recognizes a protein of 55-62kDa, identified as cyclin B1. In mammals, cyclin B associates with inactive p34cdc2, which facilitates phosphorylation of p34cdc2 at aa 14Thr and 15Tyr. This maintains the inactive state until the end of G2-phase. The inactive cyclin B-p34cdc2 complex continues to accumulate in the cytoplasm until the completion of DNA synthesis, when Cdc25, a specific protein phosphatase, dephosphorylates aa 14Thr and 15Tyr of p34cdc2 rendering the complex active at the G2/M boundary. This mitotic kinase complex remains active until the metaphase/anaphase transition when cyclin B is degraded. This degradation process is ubiquitin-dependent and is necessary for the cell to exit mitosis. So, cyclin B-p34cdc2 plays a critical role in G2 to M transition. |
| Immunogen | Recombinant human full-length Cyclin B1 protein (Uniprot: P14635) |
| Notes | mFluor(TM) is a trademark of AAT Bioquest, Inc. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. |
| Product Application Details | |
| Applications | Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunofluorescence |
| Recommended Dilutions | Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Immunofluorescence |
| Application Notes | Optimal dilution of this antibody should be experimentally determined. |

Images

Cyclin B1 Antibody (SPM619) [mFluor Violet 450 SE] [NBP3-11598MFV450] - Vial of mFluor Violet 450 conjugated antibody. mFluor Violet 450 is optimally excited at 406 nm by the Violet laser (405 nm) and has an emission maximum of 445 nm.



mFluor™ Violet 450

| LASER (nm) | FILTER |
|--------------|--------|
| Violet (405) | 450/45 |

| EXCITATION MAX (nm) | EMISSION MAX (nm) |
|---------------------|-------------------|
| 406 | 445 |



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Products Related to NBP3-11598MFV450

| | |
|-----------------|--|
| NBP1-98919-20ug | Recombinant Human Cyclin B1 His Protein |
| NBP2-75099 | Human Cyclin B1 ELISA Kit (Colorimetric) |
| AF835 | Caspase-3 Antibody [Unconjugated] - Active |
| NB500-106 | PCNA Antibody (PC10) |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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