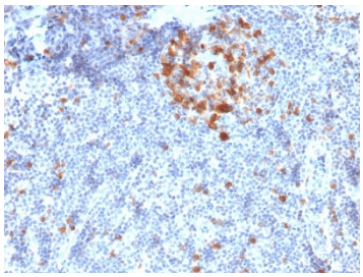
# CDC2 Antibody / CDK1 [clone A17.1.1] (V3748)

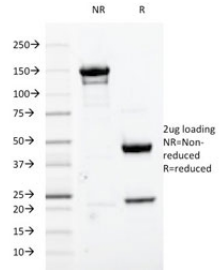
| Catalog No. | Formulation | Size |
|---|---|---|
| V3748-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3748-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V3748SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V3748IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

**Bulk quote request**

| | |
|---|---|
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | A17.1.1 |
| **Purity** | Protein G purified antibody |
| **UniProt** | P06493 |
| **Gene ID** | 983 |
| **Localization** | Nuclear and Cytoplasmic |
| **Applications** | Inhibits activation of p34cdc2 kinase by cyclins<br>Immunofluorescence: 1-2ug/ml<br>Immunoprecipitation<br>Kinase assay<br>Western blot<br>Immunohistochemistry (FFPE): 2-4ug/ml for 30 min at RT |
| **Limitations** | This CDC2 antibody is available for research use only. |



IHC staining of FFPE human tonsil with CDC2 antibody (clone A17.1.1). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.




SDS-PAGE analysis of purified, BSA-free CDC2 antibody (clone A17.1.1) as confirmation of integrity and purity.

## Description

Recognizes a 34kDa protein (cdk1), identified as Cdk1/Cdc2/p34cdc2 (a catalytic subunit of Maturation Promoting Factor). Its epitope maps near the C-terminus of the protein and its core is thought to be LGTPNNEV (aa220-227 in murine cdc2). It shows no cross reaction with cdk2 p32. It supports the kinase activity. p34cdc2 plays a crucial role during cell division and is most active during mitosis. It is a serine/threonine kinase, which is activated by cyclin, by dephosphorylation of tyrosine residues. p34cdc2 is inactivated by a tyrosine kinase. This mAb reportedly inhibits the activation of p34cdc2 kinase by cyclins.

## Application Notes

Optimal dilution of the CDC2 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

A partial protein (the C-terminal two-thirds of Xenopus CDC2) was used as the immunogen for this CDC2 antibody.

## Storage

Store the CDC2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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