

Datasheet



Mouse mAb to **Cdk1 / p34cdc2**
Clone **POH-1**
Isotype **IgG2a-κ**

Source

A BALB/c mouse was immunized with recombinant human p34cdc2 fusion protein.
Fusion partner: NS-2.

Specifications

POH-1 detects the three bands within the 34kDa region corresponding to the p34 protein cyclin dependent kinase 1 (cdk1) and its cleavage products. It is positive in immunoblotting on HeLa cell lysate and negative on fibroblast (LEP strain) cell lysate. A cdc2 homolog, the cdk2 protein kinase, does not react with POH-1. Activated cdk1 / p34cdc2 performs specific functions during mitosis, including nuclear envelope breakdown and chromosome condensation.

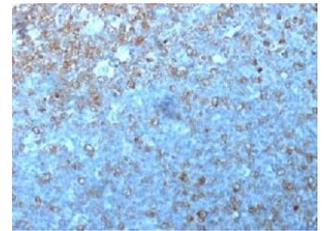


Figure 1: Human Tonsil stained with POH-1 (paraffin)

Species reactivity

Positive: cow, human, mink, monkey.
Negative: drosophila, mouse, rat, *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*.

Applications

POH-1 can be used in immunohistochemistry, fluorescence tests and Western blotting.

| ELISA | Flow cytometry | Frozen sections | Immunofluorescence | Paraffin sections | Western blot |
|-------|----------------|-----------------|--------------------|-------------------|--------------|
| + | + | + | + | Citrate | + |

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

Dilution advice

- Flow Cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunoblotting (1-2 µg/ml).
- Immunofluorescence (1-2 µg/ml).
- Immunohistology (formalin-fixed: 1-2 µg/ml for 30 min at RT; requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).

Positive control

HeLa, MCF7.

Datasheet



References

- Lukáš, J, et al. *Eur. J. Biochem.*, **207**: 169-176 (1992).