

**Mouse Anti-p34/CDC2/CDK1 [POH-1]:MC0217, MC0217RTU7**

**Intended Use:** For Research Use Only

**Description:** p34cdc2 is a phosphoprotein with protein kinase activity that functions in the G2/M phase transition of the cell cycle. It is the catalytic subunit of the maturation-promoting factor (MPF) and complexes with both cyclin A and B in mammalian cells. Activated p34cdc2 kinase phosphorylates a variety of substrates leading to some specific events of mitosis including nuclear envelope break-down and chromosome condensation. p34cdc2 has also been implicated in lymphoid proliferation.

**Specifications**

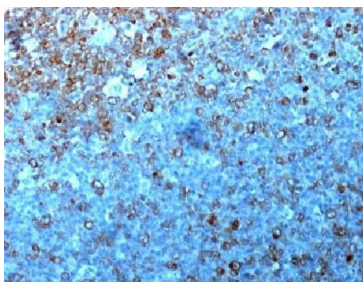
Clone: POH-1 same as cdc2.1  
 Source: Mouse  
 Isotype: IgG2a/k  
 Reactivity: Human, cow, monkey  
 Localization: Nucleus, cytoplasm  
 Formulation: Antibody in 10mM PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., ICC/IF  
 Package:

Description	Catalog No.	Size
p34/CDC2/CDK1 Concentrated	MC0217	1 ml
p34/CDC2/CDK1 Prediluted	MC0217RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Tonsil  
 Concentrated Dilution: 25-100  
 Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-p34 using DAB

**References**

1. IgE anti-Borrelia burgdorferi components (p18, p31, p34, p41, p45, p60) and increased blood CD8+CD60+ T cells in children with Lyme disease. Bluth MH, et al. Scand J Immunol. Apr;65(4):376-82, 2007.
2. Expression of the cell cycle regulatory proteins p34cdc2, p21waf1, and p53 in node negative invasive ductal breast carcinoma. Kourea HP, et al. Mol Pathol. Dec;56(6):328-35, 2003.
3. p34(cdc2) and mitotic cyclin expression in the developing quail neuroretina. Espanel X, et al. Int J Dev Biol. Jun;41(3):469-76, 1997.

Doc. 100-MC0217  
Rev. A