**Cdc20 (E-7): sc-13162**

**BACKGROUND**

Cyclins, regulatory subunits which associate with kinases, control many of the important steps in cell cycle progression. The Cdc2 protein kinase (p34Cdc2) exhibits protein kinase activity in vitro and exists in a complex with both cyclin B and a protein homologous to p13suc 1. Cdc2 kinase is the active subunit of the M phase promoting factor (MPF) and the M phase-specific Histone H1 kinase. The p34Cdc2/cyclin B complex is required for the G2 to M transition. An additional cell cycle-dependent protein kinase termed Cdc20 exhibits a high degree of homology with the *S. cerevisiae* proteins Cdc20 and Cdc4. The Cdc20 transcript is readily detectable in a variety of cultured cell lines in growth phase, but disappears when cell growth is chemically arrested. Cdc20 shows kinase activity towards α-casein and myelin basic protein.

**CHROMOSOMAL LOCATION**

Genetic locus: CDC20 (human) mapping to 1p34.2; Cdc20 (mouse) mapping to 4 D2.1.

**SOURCE**

Cdc20 (E-7) is a mouse monoclonal antibody raised against amino acids 1-175 of Cdc20 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Cdc20 (E-7) is available conjugated to agarose (sc-13162 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13162 HRP), 200 µg/ml, for WB, (IFC) and ELISA; to either phycoerythrin (sc-13162 PE), fluorescein (sc-13162 FITC), Alexa Fluor® 488 (sc-13162 AF488), Alexa Fluor® 546 (sc-13162 AF546), Alexa Fluor® 594 (sc-13162 AF594) or Alexa Fluor® 647 (sc-13162 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-13162 AF680) or Alexa Fluor® 790 (sc-13162 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, Cdc20 (E-7) is available conjugated to TRITC (sc-13162 TRITC, 200 µg/ml), for IF, IHC(P) and FCM.

**APPLICATIONS**

Cdc20 (E-7) is recommended for detection of Cdc20 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).


Molecular Weight of Cdc20: 55 kDa.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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