E2F-5 (MH-5): sc-968

**BACKGROUND**

The human retinoblastoma gene product appears to play an important role in the negative regulation of cell proliferation. Functional inactivation of Rb can be mediated either through mutation or as a consequence of interaction with DNA tumor virus encoded proteins. Of all the Rb associations described to date, the identification of a complex between Rb and the transcription factor E2F most directly implicates Rb in regulation of cell proliferation. E2F was originally identified through its role in transcriptional activation of the adenovirus E2 promoter. Sequences homologous to the E2F binding site have been found upstream of a number of genes that encode proteins with putative functions in the G1, and S phases of the cell cycle. E2F-1 is a member of a broader family of transcription regulators including E2F-2, E2F-3, E2F-4, E2F-5 and E2F-6, each of which forms heterodimers with a second protein, DP-1, forming an "active" E2F transcriptional regulatory complex.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: E2F5 (human) mapping to 8q21.2; E2f5 (mouse) mapping to 11.1.

**SOURCE**

E2F-5 (MH-5) is a mouse monoclonal antibody raised against amino acids 89-346 of E2F-5 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.

**APPLICATIONS**

E2F-5 (MH-5) is recommended for detection of E2F-5 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).


Molecular Weight of E2F-5: 59 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, MM-142 cell lysate: sc-2246 or Raji whole cell lysate: sc-364236.

**STORAGE**

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

**DATA**

![Western blot analysis of E2F-5 expression in MEG-01 (A), MM-142 (B), HL-60 (C) and Raji (D) whole cell lysates.](image1)

![Western blot analysis of E2F-5 expression in Raji (A), NAMALWA (B) and WR19L (C) whole cell lysates.](image2)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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