

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                  |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human E2F-2 in Western blots.                                                  |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                    |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                              |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human E2F-2<br>Glu308-Asn437<br>Accession # Q14209 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm    |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                           |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                        |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

E2F-2 (viral E2-associated factor 2) is a 50-55 kDa member of the E2F/DP family of transcription factors. It is principally expressed by placenta, and forms a DNA-activating E2F heterodimeric complex with DP-1 or -2. This complex, when active, promotes cell cycle progression. In quiescent cells, association with the retinoblastoma-tumor suppressor gene product termed pRB suppresses its activity. Human E2F-2 is 437 amino acids (aa) in length and contains a CDK2 binding region (aa 65-105), a DNA-binding domain (aa 107-196), a dimerization segment (aa 197-289), a transactivation region (aa 359-437), and a pRB binding domain (aa 410-427). There are two potential alternate start sites at Met197 and Met342, and one splice variant that shows a two aa substitution for aa 349-437. Over aa 308-437, human E2F-2 is 72% aa identical to mouse E2F-2.

## PRODUCT SPECIFIC NOTICES

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