

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human E2F-1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human E2F-2, -3, -4, -5, -6, -7, and -8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human E2F-1 Val264-Phe437 Accession # Q01094
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	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.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

BACKGROUND

E2F-1 (adenovirus E2 gene promoter region binding factor 1; also retinoblastoma [RB]-binding protein 3/RBP3) is a 57 - 60 kDa nuclear member of the E2F/DP family of transcription factors. It has a dual function, mediating both cell proliferation and apoptosis in a context-dependent manner. Human E2F-1 is 437 amino acids (aa) in length. It contains a cyclin A: CDK2 binding site (aa 67 - 108), a DNA-binding region (aa 110 - 194), and an RB protein binding motif (aa 409 - 426) that, when engaged, inactivates E2F-1. There is one potential in-frame 23 aa substitution for aa 89 - 111. Over aa 264 - 437, human E2F-1 shows 89% and 80% aa identity to canine and mouse E2F-1, respectively.

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