

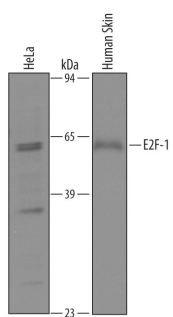
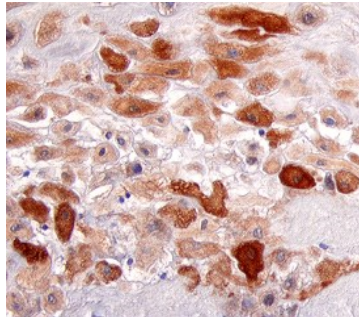
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human E2F-1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human E2F-2, -3, -4, -5, -6, -7, and -8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human E2F-1 Val264-Phe437 Accession # Q01094
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human E2F-1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and human skin tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human E2F-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4825) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for E2F-1 at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>E2F-1 in Human Placenta. E2F-1 was detected in immersion fixed paraffin-embedded sections of human placenta using 5 µg/mL Sheep Anti-Human E2F-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4825) overnight at 4 °C. Tissue was stained with the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.