

**E2EPF Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2120a****Specification**

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**E2EPF Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q16763</a>
Other Accession	<a href="#">B5DFI8</a> , <a href="#">Q921J4</a> , <a href="#">Q1RML1</a> , <a href="#">A1L3K1</a>
Reactivity	Human
Predicted	Xenopus, Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23845
Antigen Region	10-40

**E2EPF Antibody (N-term) - Additional Information****Gene ID** 27338**Other Names**

Ubiquitin-conjugating enzyme E2 S, E2-EPF, Ubiquitin carrier protein S, Ubiquitin-conjugating enzyme E2-24 kDa, Ubiquitin-conjugating enzyme E2-EPF5, Ubiquitin-protein ligase S, UBE2S, E2EPF

**Target/Specificity**

This E2EPF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10-40 amino acids from the N-terminal region of human E2EPF.

**Dilution**

WB~~1:1000

IHC-P~~1:50~100

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

E2EPF Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**E2EPF Antibody (N-term) - Protein Information**

**Name** UBE2S

**Synonyms** E2EPF

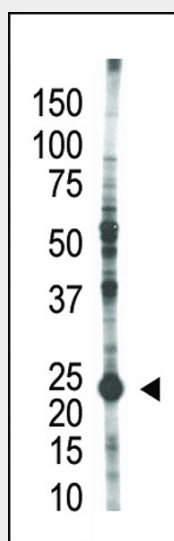
**Function** Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins (PubMed:[19820702](#), PubMed:[19822757](#), PubMed:[22496338](#), PubMed:[27259151](#)). Catalyzes 'Lys-11'- linked polyubiquitination. Acts as an essential factor of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis (PubMed:[19820702](#), PubMed:[19822757](#), PubMed:[27259151](#), PubMed:[27910872](#)). Acts by specifically elongating 'Lys-11'-linked polyubiquitin chains initiated by the E2 enzyme UBE2C/UBCH10 on APC/C substrates, enhancing the degradation of APC/C substrates by the proteasome and promoting mitotic exit (PubMed:[19820702](#), PubMed:[19822757](#), PubMed:[27259151](#)). Also acts by elongating ubiquitin chains initiated by the E2 enzyme UBE2D1/UBCH5 in vitro; it is however unclear whether UBE2D1/UBCH5 acts as an E2 enzyme for the APC/C in vivo. Also involved in ubiquitination and subsequent degradation of VHL, resulting in an accumulation of HIF1A (PubMed:[16819549](#)). In vitro able to promote polyubiquitination using all 7 ubiquitin Lys residues, except 'Lys-48'-linked polyubiquitination (PubMed:[20061386](#), PubMed:[20622874](#)).

### **E2EPF Antibody (N-term) - Protocols**

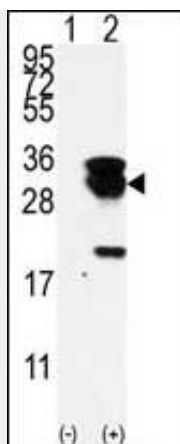
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

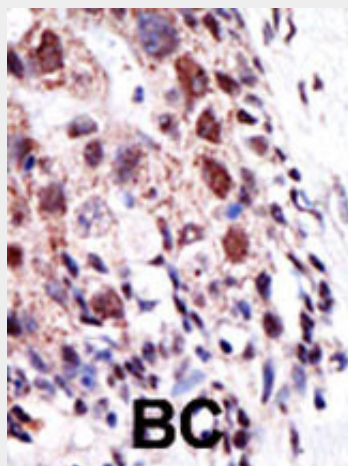
### **E2EPF Antibody (N-term) - Images**



The anti-E2EPF Pab (Cat. #AP2120a) is used in Western blot to detect E2EPF in HL-60 cell lysate.



Western blot analysis of E2EPF (arrow) using E2EPF Antibody (N-term) (Cat.#AP2120a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the UBE2S gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **E2EPF Antibody (N-term) - Background**

This gene encodes a member of the ubiquitin-conjugating enzyme family. The encoded protein is able to form a thiol ester linkage with ubiquitin in a ubiquitin activating enzyme-dependent manner, a characteristic property of ubiquitin carrier proteins.

#### **E2EPF Antibody (N-term) - References**

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).  
Liu, Z., et al., J. Biol. Chem. 267(22):15829-15835 (1992).