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E2EPF Rabbit pAb

Catalog # AP99103

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q16763
Other Accession	Q16763
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23845
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human E2EPF
Epitope Specificity	LL(p-T)EI
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ubiquitin-conjugating enzyme family.
SUBUNIT	Component of the APC/C complex. Interacts with CDC20, FZR1/CDH1 and VHL.
Post-translational modifications	Autoubiquitinated by the APC/C complex during G1, leading to its degradation by the proteasome.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	27338
Other Names	E2-EPF; E2EPF; EPF5; 0910001J09Rik; 6720465F12Rik; RGD1564746; UBE2S_BOVIN; UBE2S; E2 ubiquitin-conjugating enzyme S; Ubiquitin carrier protein S; Ubiquitin-protein ligase S; 2.3.2.23; UBE2S_HUMAN; Ubiquitin-conjugating enzyme E2-24 kDa; Ubiquitin-conjugating enzyme E2-EPF5; UBE2S_MOUSE; UBE2S_RAT; ubiquitin conjugating enzyme E2 S; ubiquitin-conjugating enzyme E2S; ubiquitin carrier protein; ubiquitin-conjugating enzyme E2-24 kD; ubiquitin-protein ligase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.