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USP1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16884b

Product Information

Application	WB, E
Primary Accession	O94782
Other Accession	Q8BJQ2, Q29RP1, NP_001017416.1, NP_001017415.1
Reactivity	Human
Predicted	Bovine, Mouse, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30381
Calculated MW	88207
Antigen Region	662-690

Additional Information

Gene ID	7398
Other Names	Ubiquitin carboxyl-terminal hydrolase 1, Deubiquitinating enzyme 1, hUBP, Ubiquitin thioesterase 1, Ubiquitin-specific-processing protease 1, USP1
Target/Specificity	This USP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 662-690 amino acids from the C-terminal region of human USP1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	USP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	USP1
Function	Negative regulator of DNA damage repair which specifically deubiquitinates monoubiquitinated FANCD2 (PubMed:15694335). Also involved in

PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA (PubMed:16531995, PubMed:20147293). Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity (PubMed:18082604, PubMed:26388029).

Cellular Location Nucleus.

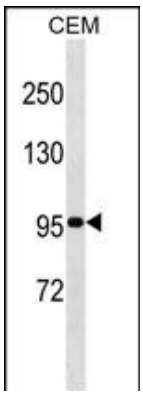
Background

This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitinylated proteins. The protein specifically deubiquitinates a protein in the Fanconi anemia (FA) DNA repair pathway. Alternate transcriptional splice variants have been characterized.

References

Barroso, E., et al. Breast Cancer Res. Treat. 118(3):655-660(2009)
McWilliams, R.R., et al. Cancer Epidemiol. Biomarkers Prev. 18(9):2549-2552(2009)
Cohn, M.A., et al. J. Biol. Chem. 284(8):5343-5351(2009)
Cohn, M.A., et al. Mol. Cell 28(5):786-797(2007)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)

Images



USP1 Antibody (C-term) (Cat. #AP16884b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the USP1 antibody detected the USP1 protein (arrow).

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