

ARG54998 anti-USP1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes USP1
Tested Reactivity	Hu
Predict Reactivity	Ms, Bov
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	USP1
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 662-690 (C-terminus) of Human USP1.
Conjugation	Un-conjugated
Alternate Names	Ubiquitin-specific-processing protease 1; Ubiquitin carboxyl-terminal hydrolase 1; Ubiquitin thioesterase 1; Deubiquitinating enzyme 1; hUBP; EC 3.4.19.12

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	CEM	

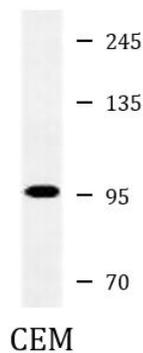
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 7398 Human Swiss-port # O94782 Human
Gene Symbol	USP1
Gene Full Name	ubiquitin specific peptidase 1
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 ubiquitylated proteins. The protein specifically deubiquitinates a protein in the Fanconi anemia (FA) DNA repair pathway. Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]
Function	Negative regulator of DNA damage repair which specifically deubiquitinates monoubiquitinated FANCD2. Also involved in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA. Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Gene Regulation antibody
Calculated Mw	88 kDa
PTM	Autocatalytic cleavage of USP1 following UV irradiation inactivates it leading to an increase in ubiquitinated PCNA, recruitment of POLH and translesion synthesis. Ubiquitinated; leading to its subsequent proteasomal degradation.
Cellular Localization	Nucleus.

Images



ARG54998 anti-USP1 antibody WB image

Western blot: 35 µg of CEM cell lysate stained with ARG54998 anti-USP1 antibody.