

泛素特异性蛋白酶 1 抗体

产品货号： mIR1936

英文名称： USP1

中文名称： 泛素特异性蛋白酶 1 抗体

别名： Ubiquitin specific protease 1; UBP; UBP1_HUMAN; Ubiquitin carboxyl-terminal hydrolase 1; Deubiquitinating enzyme 1; hUBP; Ubiquitin thioesterase 1; Ubiquitin-specific-processing protease 1.

研究领域： 细胞生物 染色质和核信号

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit,

产品应用： ELISA=1:500-5000 IHC-P=1:100-1000 IHC-F=1:100-1000 IF=1:100-1000 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 88kDa

细胞定位： 细胞核

性状： Lyophilized or Liquid

浓度： 1mg/ml

免疫原： KLH conjugated synthetic peptide derived from human USP1:701-785/785

亚型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. 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.

PubMed： PubMed

产品介绍： 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 ubiquitinated 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.

Subunit:

Interacts with FANCD2 and PCNA. Interacts with WDR48.

Subcellular Location:

Nucleus.

Post-translational modifications:

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 (By similarity).

Similarity:

Belongs to the peptidase C19 family.

SWISS:

O94782

Gene ID:

7398

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

USP1 蛋白是在 DNA 损伤修复过程中起作用的蛋白分子，可能在癌变的过程中也起到重要作用。