

Recombinant Human USP2 Protein, His-tagged

Cat. No. USP2-092H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant C-terminally Histidine-tagged human USP2 enzyme (active catalytic domain, 259-605) was purified from E. coli.
Species	Human
Source	E.coli
ProteinLength	259-605
Description	This gene encodes a member of the family of de-ubiquitinating enzymes, which belongs to the peptidase C19 superfamily. The encoded protein is a ubiquitin-specific protease which is required for TNF-alpha (tumor necrosis factor alpha) -induced NF-kB (nuclear factor kB) signaling. This protein deubiquitinates polyubiquitinated target proteins such as fatty acid synthase, murine double minute 2 (MDM2), MDM4/MDMX and cyclin D1. MDM2 and MDM4 are negative regulators of the p53 tumor suppressor and cyclin D1 is required for cell cycle G1/S transition. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.
Molecular Mass	40.9 kDa
Purity	≥95% as determined by SDS-PAGE
Unit Definition	One unit is defined as the amount of USP2 enzyme required to produce 1 pmol of AMC per minute at room temperature in 50 mM HEPES, pH 7.8, 0.5 mM EDTA, 1 mM DTT, and 0.2% CHAPS.

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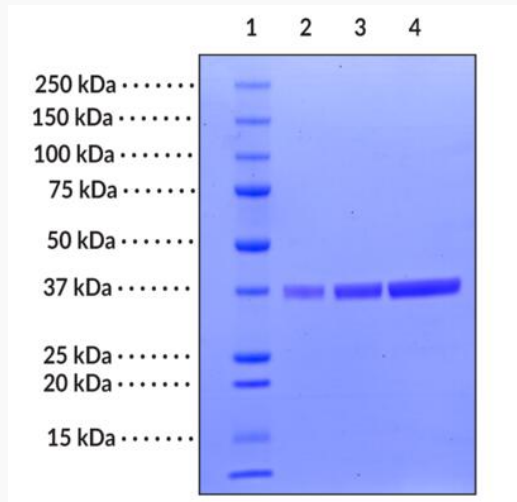
Stability	≥ 2 years
Storage	At -80 centigrade.
Storage Buffer	50 mM HEPES, pH 8.0, 150 mM sodium chloride, 1 mM DTT, and 0.1 mM EDTA
GENE INFORMATION	
Gene Name	USP2 ubiquitin specific peptidase 2 [Homo sapiens (human)]
Official Symbol	USP2
Synonyms	USP2; ubiquitin specific peptidase 2; USP9; UBP41; ubiquitin carboxyl-terminal hydrolase 2; 41 kDa ubiquitin-specific protease; deubiquitinating enzyme 2; ubiquitin specific protease 12; ubiquitin specific protease 9; ubiquitin thioesterase 2; ubiquitin-specific-processing protease 2; EC 3.4.19.12
Gene ID	9099
mRNA Refseq	NM_004205
Protein Refseq	NP_004196
MIM	604725
UniProt ID	O75604

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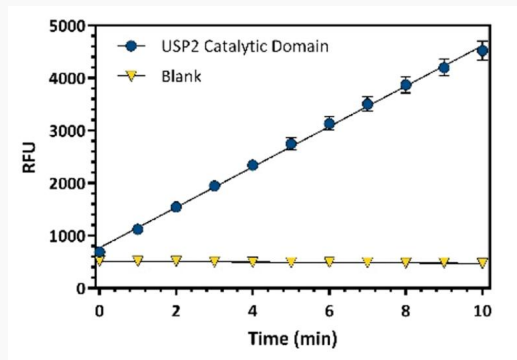
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**SDS-PAGE analysis
of USP2**



Lane 1: MW Markers
 Lane 2: USP2 (1 µg)
 Lane 3: USP2 (2 µg)
 Lane 4: USP2 (4 µg)



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