Recombinant Human USP2 Protein, His-tagged

Cat. No. USP2-011H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSPA4 protein (259-605, active catalytic domain) with a C-terminally Histidine tag was expressed in 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.
Form	50 mM HEPES, pH 8.0, 150 mM sodium chloride, 1 mM DTT, and 0.1 mM EDTA
Molecular Mass	40.9 kDa
Purity	≥95% estimated by SDS-PAGE
Unit Definition	One unit is defined as the amount of USP2 enzyme required to produce 1 pmol of

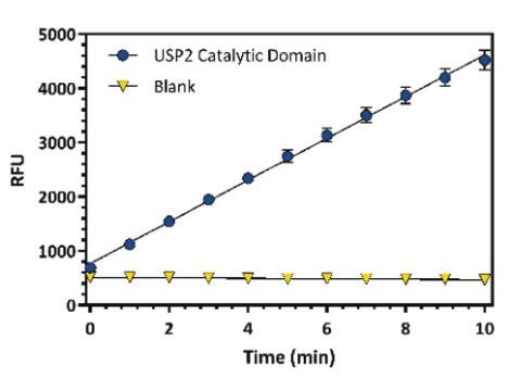
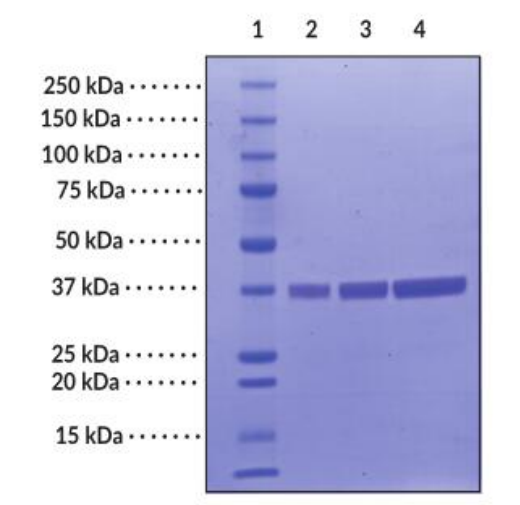
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	AMC per minute at room temperature in 50 mM HEPES, pH 7.8, 0.5 mM EDTA, 1 mM DTT,and 0.2% CHAPS
Stability	≥ 1 year
Storage	Store at -80 centigrade
Shipping	Dry ice in continental US; may vary elsewhere

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_001243759
Protein Refseq	NP_004196
MIM	604725
UniProt ID	O75604

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ATPase Activity of USP2	
SDS-PAGE analysis of USP2.	 Lane 1: MW Markers Lane 2: USP2 (1 g) Lane 3: USP2 (2 g) Lane 4: USP2 (4 g)

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