

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

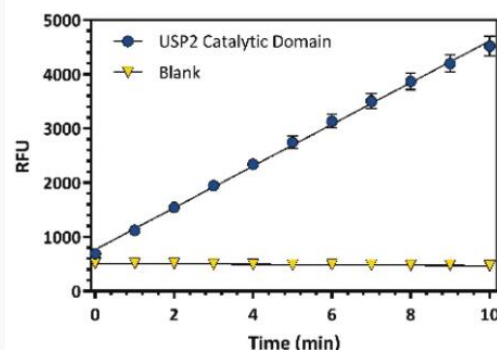
O75604

 Tel: 1-631-559-9269 1-516-512-3133

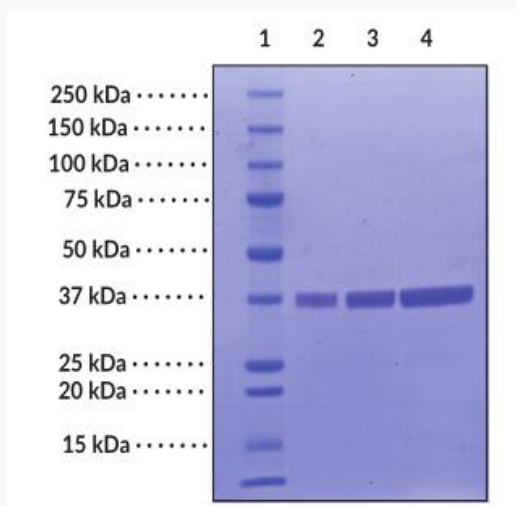
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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)