

Recombinant Human USP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. USP2-886H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	USP2 MS Standard C13 and N15-labeled recombinant protein (NP_741994) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	45.1 kDa
AA Sequence	MRTSYTVTLPEDPPAAPFPALAKELRPRSPLSPSLLLSTFVGLLLNKAKNSKSAQGLA GLRNLGNTCFMNSILQCLSNTRELRDYCLQRLYMRDLHHGSNAHTALVEEFAKLIQT IWTSSPNDVVSPSEFKTQIQRYAPRFVGYNQQDAQEFLRFLLDGLHNEVNRVTLRP KSNPENLDHLPDDEKGRQMWRKYLEREDSRIGDLFVGQLKSSLTCTDCGYCSTVF DPFWDLSLPIAKRGYPEVTLMDCMRLFTKEDVLDGDEKPTCCRCRGRKRCIKKFSIQ

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RFPKILVLHLKRFSESRIRTSKLTTFVNFPLRDLDLREFASENTNHAVYNLYAVSNHS
GTTMGGHYTAYCRSPGTGEWHTFNDSSVTPMSSSQVRTSDAYLLFYELASPPSRM
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [USP2 ubiquitin specific peptidase 2 \[Homo sapiens \(human\) \]](#)

Official Symbol [USP2](#)

Synonyms USP2; ubiquitin specific peptidase 2; ubiquitin specific protease 2; ubiquitin carboxyl-terminal hydrolase 2; UBP41; ubiquitin thioesterase 2; deubiquitinating enzyme 2; ubiquitin specific protease 9; ubiquitin specific protease 12; 41 kDa ubiquitin-specific protease; ubiquitin-specific-processing protease 2; USP9;

Gene ID [9099](#)

mRNA Refseq [NM_171997](#)

Protein Refseq [NP_741994](#)

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MIM 604725

UniProt ID O75604

SDS-PAGE



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