

## Active Recombinant human USP2 protein, FLAG-tagged

**Cat. No.** USP2-320H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human USP2 protein, FLAG-tagged was expressed in baculovirus-infected Sf9 cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 2-605(end)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Aqueous buffer solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Bio-activity</b>     | 8.9 pmole/min/g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 69 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>          | At least 6 months at -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                       |                                                                                                                          |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Buffer</b> | 40mM Tris-HCl pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 100ug/mL FLAG peptide and 20% glycerol.                         |
| <b>Shipping</b>       | -80°C                                                                                                                    |
| <b>Warning</b>        | Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein BSA (0.1 – 0.5%). |

## GENE INFORMATION

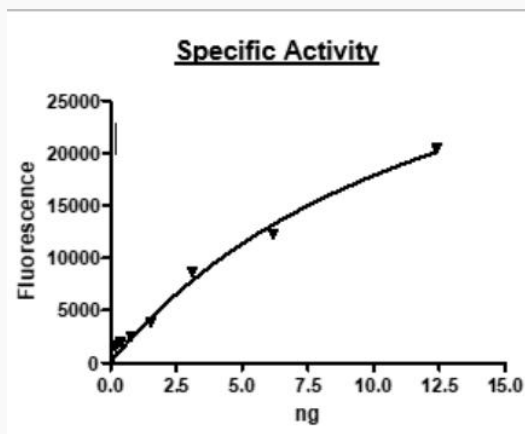
|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| <b>Gene Name</b>       | USP2 ubiquitin specific peptidase 2 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | USP2                                                         |
| <b>Synonyms</b>        | Ubiquitin-Specific Protease 2, UPB41, USP-2                  |
| <b>Gene ID</b>         | 9099                                                         |
| <b>mRNA Refseq</b>     | NM_004205                                                    |
| <b>Protein Refseq</b>  | NP_004196.4                                                  |
| <b>MIM</b>             | 604725                                                       |
| <b>UniProt ID</b>      | O75604                                                       |

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### Specific Activity



### 4-20% SDS-PAGE Coomassie staining

