



Human USP2 peptide (DAG-P1249)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

| | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antigen 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. [provided by RefSeq, Aug 2011] |
| Specificity | Expressed in mesangial cells of the kidney and in different types of glomerulonephritides (at protein level). |
| Purity | 70 - 90% by HPLC. |
| Conjugate | Unconjugated |
| Sequence Similarities | Belongs to the peptidase C19 family. USP2 subfamily. |
| Format | Liquid |
| Preservative | None |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

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; ubiquitin thioesterase 2; deubiquitinating enzyme 2; ubiquitin specific protease 9; ubiquitin specific protease 12; 41 kDa ubiquitin-specific protease; ubiquitin-specific-processing protease 2; |
| Entrez Gene ID | 9099 |
| mRNA Refseq | NM_001243759.1 |
| Protein Refseq | NP_001230688.1 |
| UniProt ID | O75604 |
| Chromosome Location | 11q23.3 |
| Pathway | TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem; |
| Function | cyclin binding; cysteine-type endopeptidase activity; identical protein binding; metal ion binding; protein binding; ubiquitin protein ligase binding; ubiquitin thiolesterase activity; ubiquitin thiolesterase activity; ubiquitin-specific protease activity |