

USP4 / UNP Antibody (N-Term)
Peptide-affinity purified goat antibody
Catalog # AF2339a

Specification

USP4 / UNP Antibody (N-Term) - Product Information

Application	WB, E
Primary Accession	Q13107
Other Accession	NP_003354.2 , NP_955475.1 , 7375
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	108565

USP4 / UNP Antibody (N-Term) - Additional Information

Gene ID 7375

Other Names

Ubiquitin carboxyl-terminal hydrolase 4, 3.4.19.12, Deubiquitinating enzyme 4, Ubiquitin thioesterase 4, Ubiquitin-specific-processing protease 4, Ubiquitous nuclear protein homolog, USP4, UNP, UNPH

Dilution

WB~~1:1000
E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

USP4 / UNP Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

USP4 / UNP Antibody (N-Term) - Protein Information

Name USP4 {ECO:0000303|PubMed:30514904, ECO:0000312|HGNC:HGNC:12627}

Function

Deubiquitinating enzyme that removes conjugated ubiquitin from target proteins (PubMed:16316627, PubMed:<a

<http://www.uniprot.org/citations/16339847> target="_blank">16339847, PubMed:16472766, PubMed:20595234, PubMed:22347420, PubMed:25404403, PubMed:28604766, PubMed:30514904). Deubiquitinates PDPK1 (PubMed:22347420). Deubiquitinates TRIM21 (PubMed:16316627). Deubiquitinates receptor ADORA2A which increases the amount of functional receptor at the cell surface (PubMed:16339847). Deubiquitinates HAS2 (PubMed:28604766). Deubiquitinates RHEB in response to EGF signaling, promoting mTORC1 signaling (PubMed:30514904). May regulate mRNA splicing through deubiquitination of the U4 spliceosomal protein PRPF3 (PubMed:20595234). This may prevent its recognition by the U5 component PRPF8 thereby destabilizing interactions within the U4/U6.U5 snRNP (PubMed:20595234). May also play a role in the regulation of quality control in the ER (PubMed:16339847).

Cellular Location

Cytoplasm. Nucleus. Note=Shuttles between the nucleus and cytoplasm. Exported to the cytoplasm in a CRM1-dependent manner and recycled back to the nucleus via the importin alpha/beta heterodimeric import receptor. The relative amounts found in the nucleus and cytoplasm vary according to the cell type

Tissue Location

Overexpressed in small cell tumors and adenocarcinomas of the lung compared to wild-type lung (at protein level). Expressed in the hippocampal neurons

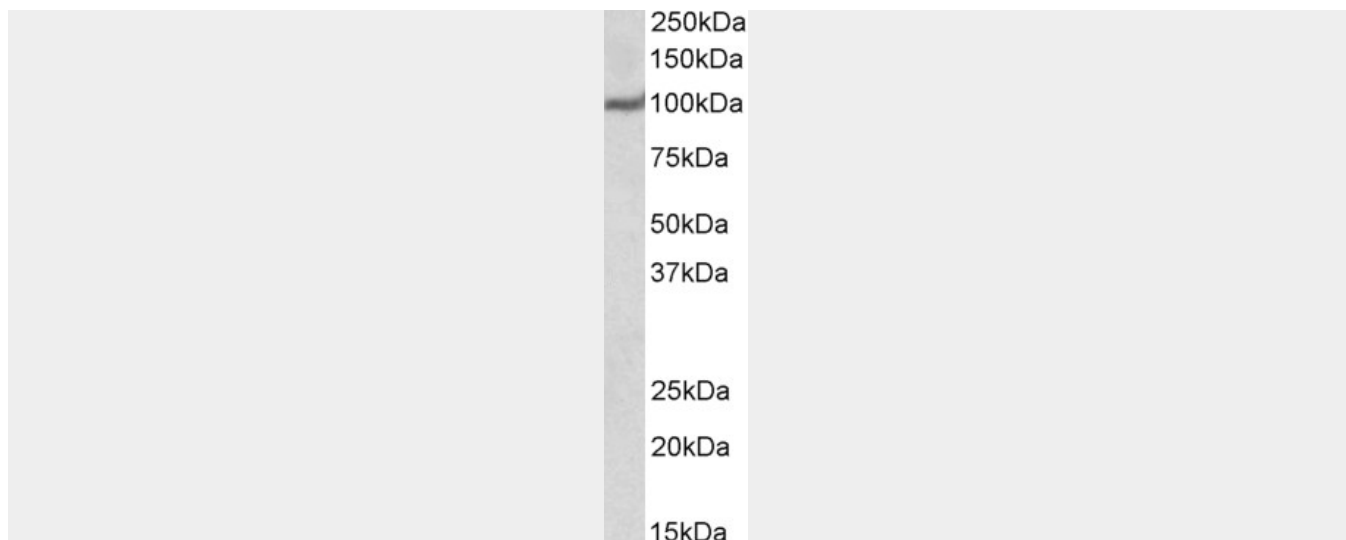
USP4 / UNP Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

USP4 / UNP Antibody (N-Term) - Images





Approx 100kDa band observed in Human Heart lysates (calculated MW of 104kDa according to NP_955475.1). Recommended concentration: 1-3 μ g/ml.

USP4 / UNP Antibody (N-Term) - References

The human UNP locus at 3p21.31 encodes two tissue-selective, cytoplasmic isoforms with deubiquitinating activity that have reduced expression in small cell lung carcinoma cell lines. Frederick A, Rolfe M, Chiu MI. *Oncogene*. 1998 Jan 15;16(2):153-65. PMID: 9464533