

USP25 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS17092**Specification**

USP25 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	O9UHP3
Other Accession	29761
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	122218

USP25 Antibody (Internal) - Additional Information**Gene ID** 29761**Other Names**

USP25, Deubiquitinating enzyme 25, Ubiquitin thiolesterase 25, Ubiquitin thioesterase 25, USP on chromosome 21, Ubiquitin specific protease 25

Target/Specificity

USP25 antibody is human and mouse reactive. Multiple isoforms of USP25 are known to exist.

Reconstitution & Storage

PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

USP25 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

USP25 Antibody (Internal) - Protein Information**Name** USP25**Synonyms** USP21**Function**

Deubiquitinating enzyme that hydrolyzes ubiquitin moieties conjugated to substrates and thus, functions in various biological processes including inflammation, immune response (PubMed: [29518389](http://www.uniprot.org/citations/29518389), PubMed: [37683630](http://www.uniprot.org/citations/37683630)). Modulates the Wnt/beta-catenin pathway by deubiquitinating and stabilizing tankyrases TNKS1 and TNKS2 (PubMed: [28619731](http://www.uniprot.org/citations/28619731), PubMed: [30926243](http://www.uniprot.org/citations/30926243)). Regulates KEAP1-NRF2 axis in the defense against oxidative assaults by deubiquitinating KEAP1 and protecting it from degradation leading to degradation of the NRF2 transcription factor that is

responsible for mounting an anti-oxidation gene expression program (PubMed:37339955). Positively regulates RNA virus-induced innate signaling by interacting with and deubiquitinating ERLIN1 and ERLIN2 (PubMed:37683630). In turn, restricts virus production by regulating cholesterol biosynthetic flux (PubMed:37683630). Acts as a negative regulator of interleukin-17- mediated signaling and inflammation through the removal of 'Lys-63'- linked ubiquitination of TRAF5 and TRAF6 (PubMed:23042150). Prevents the ubiquitination and degradation of TRAF3 to reduce the phosphorylation levels of JNK and P38, the secretion of IL-1B and to induce endotoxin tolerance (PubMed:30579117).

Cellular Location

Cytoplasm

Tissue Location

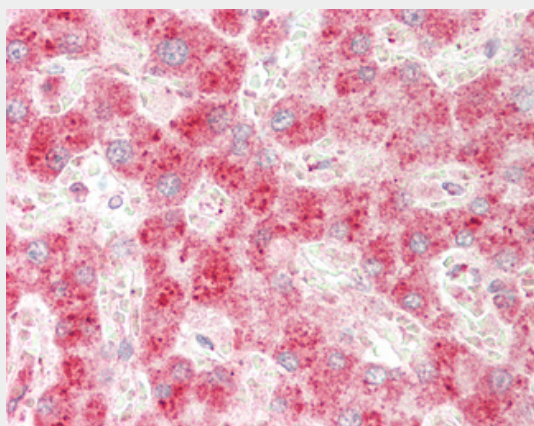
Isoform USP25a is found in most adult and fetal tissues; expression is moderately high in testis, pancreas, kidney, skeletal muscle, liver, lung, placenta, brain, heart, but very low in peripheral blood, colon, small intestine, ovary, prostate, thymus and spleen. Isoform USP25b is found in all tissues except heart and skeletal muscle. Isoform USP25m is heart and skeletal muscle specific

USP25 Antibody (Internal) - 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](#)

USP25 Antibody (Internal) - Images



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)

USP25 Antibody (Internal) - Background

Deubiquitinating enzyme that hydrolyzes ubiquitin moieties conjugated to substrates and thus, functions to process newly synthesized Ubiquitin, to recycle ubiquitin molecules or to edit polyubiquitin chains and prevents proteasomal degradation of substrates. Hydrolyzes both 'Lys-48'- and 'Lys-63'-linked tetraubiquitin chains.

USP25 Antibody (Internal) - References

Valero R.,et al.Genomics 62:395-405(1999).

Groet J.,et al.Genes Chromosomes Cancer 27:153-161(2000).

Valero R.,et al.Submitted (FEB-2009) to the EMBL/GenBank/DDBJ databases.

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).