



## Rabbit Anti-USP3 antibody

SL4806R

<b>Product Name:</b>	USP3
<b>Chinese Name:</b>	去Ubiquitin化酶3抗体
<b>Alias:</b>	Deubiquitinating enzyme 3; EC 3.1.2.15; SIH003; Ubiquitin carboxyl-terminal hydrolase 3; Ubiquitin specific peptidase 3; Ubiquitin specific processing protease 3; Ubiquitin Specific Protease 3; Ubiquitin thioesterase 3; Ubiquitin thiolesterase 3; Ubiquitin-specific-processing protease 3; UBP; UBP3_HUMAN; Usp3.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	59kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human USP3:31-130/520
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. Through the use of a wide range of enzymes that can add or remove ubiquitin, the Ub pathway controls many intracellular processes such as signal transduction, transcriptional activation and

cell cycle progression. USP3 (ubiquitin specific peptidase 3), also known as UBP or SIH003, is a 520 amino acid protein that contains one UBP-type zinc finger and belongs to the peptidase C19 family. Expressed ubiquitously with highest levels present in pancreas, USP3 catalyzes the conversion of a ubiquitin C-terminal thioester to a free ubiquitin and a thiol. The gene encoding USP3 maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome.

**Function:**

Hydrolase that deubiquitinates monoubiquitinated target proteins such as histone H2A and H2B. Required for proper progression through S phase and subsequent mitotic entry. May regulate the DNA damage response (DDR) checkpoint through deubiquitination of H2A at DNA damage sites. Associates with the chromatin.

**Subunit:**

Interacts (via UBP-type domain) with H2A; the interaction is less efficient than with monoubiquitinated H2A.

**Subcellular Location:**

Nucleus. Localizes preferentially with monoubiquitinated H2A to chromatin.

**Tissue Specificity:**

Expressed in all tissues examined, with strongest expression in pancreas.

**Similarity:**

Belongs to the peptidase C19 family. USP3 subfamily.  
Contains 1 UBP-type zinc finger.

**SWISS:**

Q9Y6I4

**Gene ID:**

9960

**Database links:**

[Entrez Gene: 9960](#)Human

[Entrez Gene: 235441](#)Mouse

[Entrez Gene: 363084](#)Rat

[GenBank: NM\\_006537](#)Human

[GenBank: NM\\_144937](#)Mouse

[Omim: 604728](#)Human

[SwissProt: Q9Y6I4](#)Human

[SwissProt: Q91W36](#)Mouse

[SwissProt: A1L1I5](#)Rat

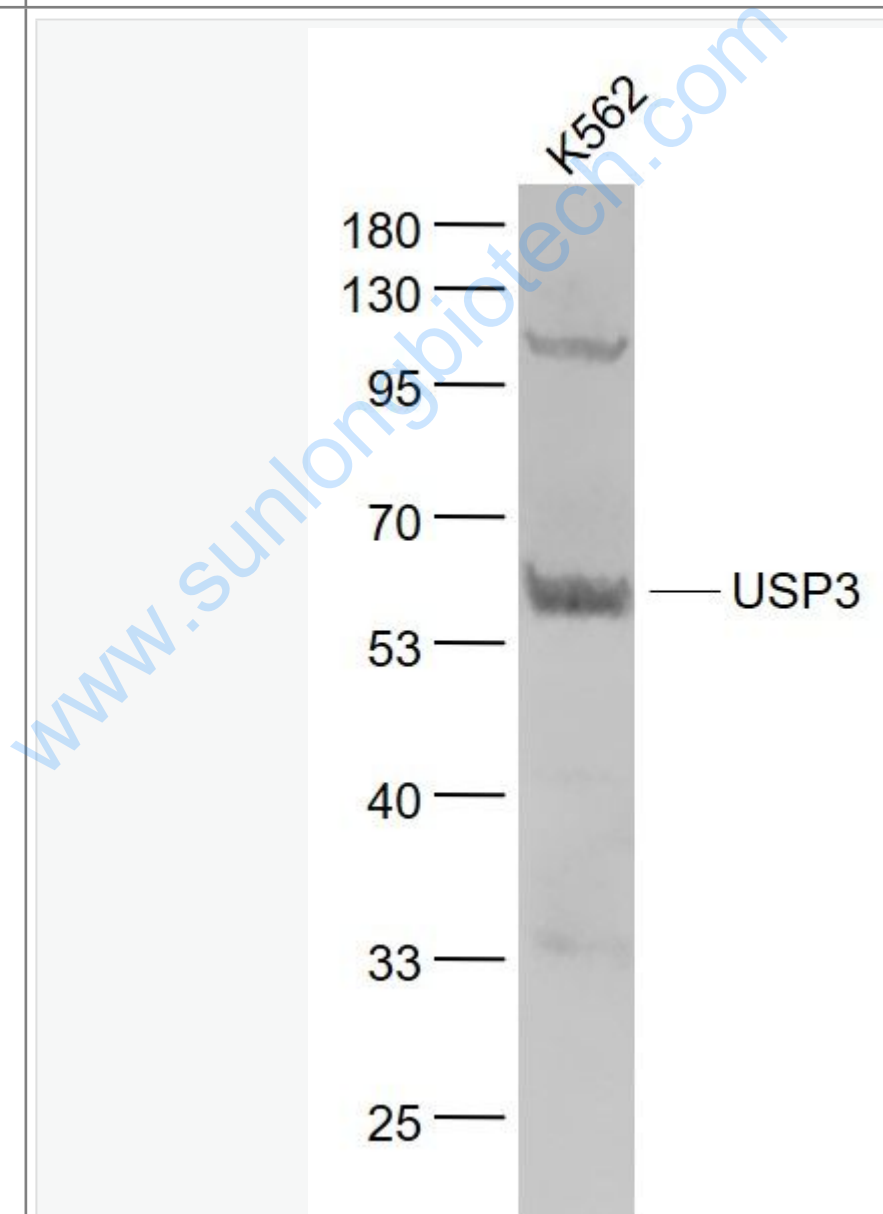
[Unigene: 458499](#)Human

[Unigene: 38976](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

K562(Human) Cell Lysate at 30 ug

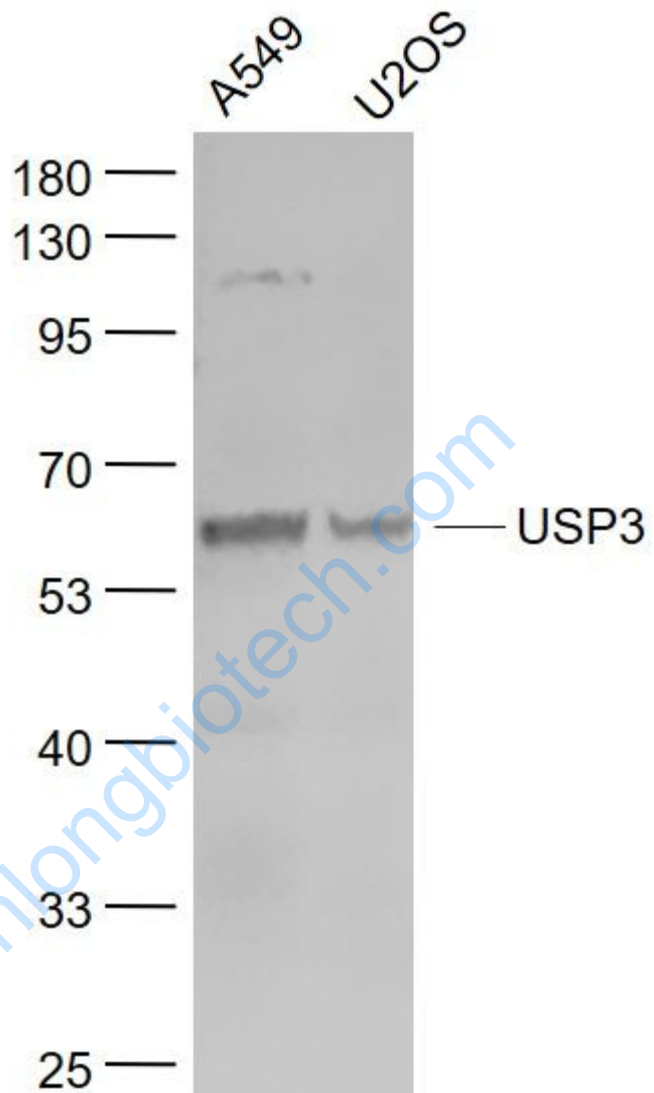
Primary: Anti- USP3 (SL4806R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 59 kD

Observed band size: 59 kD

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)



Sample:

A549(Human) Cell Lysate at 30 ug

U2OS(Human) Cell Lysate at 30 ug

Primary: Anti- USP3 (SL4806R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 59 kD

	Observed band size: 59 kD
--	---------------------------

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)