



[Go to Product page](#)

Datasheet for ABIN2787924

## anti-USP7 antibody (Middle Region)

2 Images

1 Publication

### Overview

Quantity:	100 µL
Target:	USP7
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Horse, Cow, Rabbit, Zebrafish (Danio rerio), Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This USP7 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human USP7
Sequence:	RVLLDNVENK MKGTCVEGTI PKLFRGKMVS YIQCKEVDYR SDRREDDYDI
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 93%, Rabbit: 100%, Rat: 100%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against USP7. It was validated on Western Blot.
Purification:	Affinity Purified

### Target Details

Target:	USP7
Alternative Name:	USP7 ( <a href="#">USP7 Products</a> )

## Target Details

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**Background:** USP7 is a hydrolase that deubiquitinates target proteins such as FOXO4, TP53, MDM2, PTEN and DAXX. Together with DAXX, USP7 prevents MDM2 self-ubiquitination and enhances the E3 ligase activity of MDM2 towards TP53, thereby promoting TP53 ubiquitination and proteasomal degradation. USP7 deubiquitinates TP53 and MDM2 and strongly stabilizes TP53 even in the presence of excess MDM2, and also induces TP53-dependent cell growth repression and apoptosis. Deubiquitination of FOXO4 in presence of hydrogen peroxide is not dependent on TP53 and inhibits FOXO4-induced transcriptional activity. In association with DAXX, USP7 is involved in the deubiquitination and translocation of PTEN from the nucleus to the cytoplasm, both processes that are counteracted by PML. USP7 is involved in cell proliferation during early embryonic development. USP7 contributes to the overall stabilization and trans-activation capability of the herpesvirus 1 trans-acting transcriptional protein ICP0/VMW110 during HSV-1 infection.

Alias Symbols: HAUSP, TEF1

Protein Interaction Partner: UBC, TP53, CHFR, RNF220, TPP1, FAM175B, HUWE1, PEPD, XPC, SUMO2, IKBKG, SHFM1, RB1, SUMO1, RPA3, RPA2, RPA1, PTEN, EED, ABL1, RNF2, MMS19, PPP6C, FKBP5, PPP6R3, CDC37, OGFR, COPS6, MAGED2, TRAP1, MCMBP, CLK3, UHRF1, PPARG, RNF11, KAT5, SOX2, LOC576779, HD

Protein Size: 1102

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Molecular Weight: 128 kDa

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Gene ID: 7874

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NCBI Accession: [NM\\_003470](#), [NP\\_003461](#)

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UniProt: [Q93009](#)

## Application Details

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**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator.

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**Comment:** Antigen size: 1102 AA

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** Lot specific

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**Buffer:** Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

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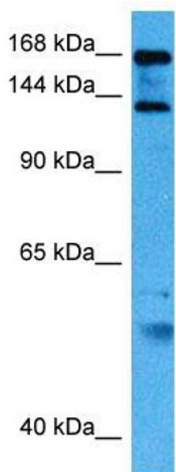
## Handling

	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in:	Kenigsberg, Lima, Maghen, Wyse, Lackan, Cheung, Tsang, Librach: "The elusive MAESTRO gene: Its human reproductive tissue-specific expression pattern." in: <b>PLoS ONE</b> , Vol. 12, Issue 4, pp. e0174873, (2017) ( <a href="#">PubMed</a> ).
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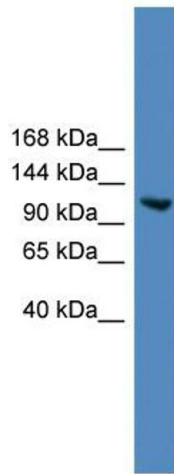
## Images



Host: Rabbit  
Target Name: Usp7  
Sample Type: Rat Brain Lysate  
Antibody Dilution: 1.0µg/ml

### Western Blotting

**Image 1.** Host: Rat Target Name: USP7 Sample Tissue: Rat  
Brain Antibody Dilution: 1ug/ml



### Western Blotting

**Image 2.** WB Suggested Anti-USP7 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: A549 cell lysate