

**USP5 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8423b**

## Specification

---

### USP5 Antibody - Product Information

Application	WB,E
Primary Accession	<a href="#">P45974</a>
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1, $\kappa$

### USP5 Antibody - Additional Information

**Gene ID** 8078

#### Other Names

Ubiquitin carboxyl-terminal hydrolase 5, Deubiquitinating enzyme 5, Isopeptidase T, Ubiquitin thioesterase 5, Ubiquitin-specific-processing protease 5, USP5, ISOT

#### Target/Specificity

This USP5 antibody is generated from a mouse immunized with a recombination protein from the human region of human USP5.

#### Dilution

WB~~1:2000

#### Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

#### Storage

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

#### Precautions

USP5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### USP5 Antibody - Protein Information

**Name** USP5

**Synonyms** ISOT

**Function** Cleaves linear and branched multiubiquitin polymers with a marked preference for branched polymers. Involved in unanchored 'Lys- 48'-linked polyubiquitin disassembly. Binds linear and 'Lys-63'-linked polyubiquitin with a lower affinity. Knock-down of USP5 causes the

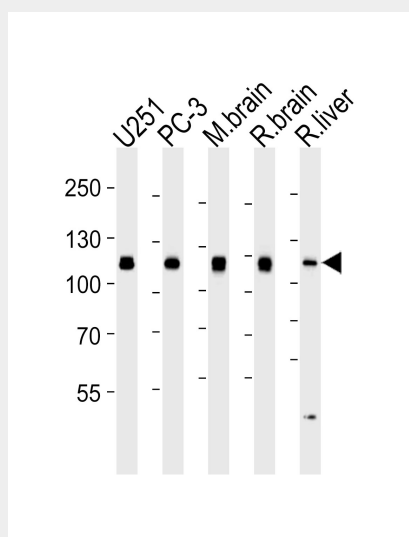
accumulation of p53/TP53 and an increase in p53/TP53 transcriptional activity because the unanchored polyubiquitin that accumulates is able to compete with ubiquitinated p53/TP53 but not with MDM2 for proteasomal recognition.

## USP5 Antibody - 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](#)

## USP5 Antibody - Images



Western blot analysis of lysates from U251, PC-3 cell line, mouse brain, rat brain and liver tissue lysates (from left to right), using USP5 Antibody (Cat. #AM8423b). AM8423b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 35µg per lane.

## USP5 Antibody - Background

Cleaves linear and branched multiubiquitin polymers with a marked preference for branched polymers. Involved in unanchored 'Lys-48'-linked polyubiquitin disassembly. Binds linear and 'Lys-63'-linked polyubiquitin with a lower affinity. Knock-down of USP5 causes the accumulation of p53/TP53 and an increase in p53/TP53 transcriptional activity because the unanchored polyubiquitin that accumulates is able to compete with ubiquitinated p53/TP53 but not with MDM2 for proteasomal recognition.

## USP5 Antibody - References

Falquet L., et al. FEBS Lett. 376:233-237(1995).  
Ansari-Lari M.A., et al. Genome Res. 6:314-326(1996).

Ansari-Lari M.A., et al. Genome Res. 7:268-280(1997).

Tashayev V.L., et al. Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases.

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