SunLong Biotech Co.,LTD
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Mouse Anti-USP5 antibody

SLM-51588M

Product Name	USP5
Chinese Name	Ubiquitin 羧基末端水解酶 5 单克隆抗体
Alias	Deubiquitinating enzyme 5; Isopeptidase T; ISOT 1; ISOT; Ubiquitin carboxyl-terminal hydrolase 5; Ubiquitin isopeptidase T; Ubiquitin specific peptidase 5 (isopeptidase T); Ubiquitin specific peptidase 5; Ubiquitin specific processing protease 5; Ubiquitin specific protease 5 (isopeptidase T); Ubiquitin specific protease 5 (ubiquitin isopeptidase T); Ubiquitin thioesterase 5; Ubiquitin thiolesterase 5; Ubiquitin-specific-processing protease 5; UBP5_HUMAN.
Research Area	Cell biology Epigenetics Ubiquitin
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	H4Y13
React Species	Human, Mouse, Rat,
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	96kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human USP5.
Lsotype	IgG1,κ
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

PubMed

PubMed

Profound changes in patterns of gene expression can result from relatively small changes in the concentrations of sequence specific transcription factors. Ubiquitin (see MIM 191339)-dependent proteolysis is a complex pathway of protein metabolism implicated in such diverse cellular functions as maintenance of chromatin structure, receptor function, and degradation of abnormal proteins. A late step of the process involves disassembly of the polyubiquitin chains on degraded proteins into ubiquitin monomers. USP5 disassembles branched polyubiquitin chains by a sequential exo mechanism, starting at the proximal end of the chain (Wilkinson et al., 1995 [PubMed 7578059]).[supplied by OMIM, Mar 2010]

Product Detail

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.

Subunit:
Interacts with TRIML1.

Post-translational modifications:
The N-terminus is blocked.
The UniProt Consortium

Similarity:
Belongs to the peptidase C19 family.
Contains 2 UBA domains.
Contains 1 UBP-type zinc finger.

SWISS:
P45974

Gene ID:
8078

Database links:

Entrez Gene: 8078 Human

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Entrez Gene: 22225 Mouse

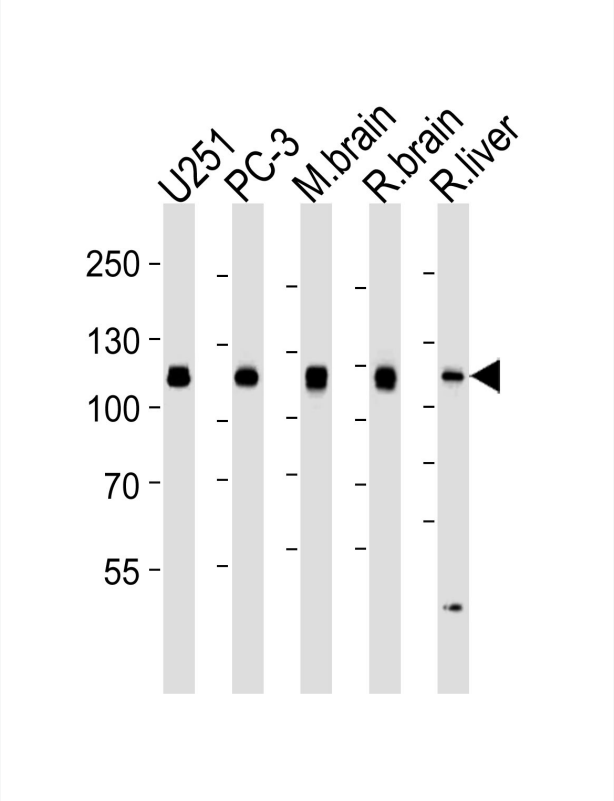
Entrez Gene: 297593 Rat

Omim: 601447 Human

SwissProt: P45974 Human

SwissProt: P56399 Mouse

Product Picture



Sample:

Lane 1: U251 cell lysates

Lane 2: PC-3 cell lysates

Lane 3: Mouse brain tissue lysates

Lane 4: Rat brain tissue lysates

Lane 5: Rat liver tissue lysates

Primary: Anti-USP5 (SLM-51588M) at 1/1000 dilution

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

Predicted band size: 96 kD

Observed band size: 110 kD