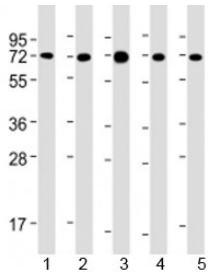
USP2 Antibody [clone 1738CT331.50.87] (F53953)

Catalog No.	Formulation	Size
F53953-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F53953-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, African Green Monkey
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	1738CT331.50.87
Purity	Protein G affinity chromatography
UniProt	O75604
Applications	Western blot: 1:1000-2000
Limitations	This USP2 antibody is available for research use only.



Western blot testing of human 1) MCF-7, 2) PC-3, 3) COS-7, 4) DU-145 and 5) SK-BR-3 cell lysate with USP2 antibody at 1:2000. Predicted molecular weight: 68 kDa. Isoforms at ~41 and ~45 kDa may also be observed.

Description

Ubiquitin carboxyl-terminal hydrolase 2 is a hydrolase that deubiquitinates polyubiquitinated target proteins such as MDM2, MDM4 and CCND1. Isoform 1 and isoform 4 possess both ubiquitin-specific peptidase and isopeptidase activities. Deubiquitinates MDM2 without reversing MDM2-mediated p53/TP53 ubiquitination and thus indirectly promotes p53/TP53 degradation and limits p53 activity. Has no deubiquitinase activity against p53/TP53. Prevents MDM2-mediated degradation of MDM4. Plays a role in the G1/S cell-cycle progression in normal and cancer cells. Plays a role in the

regulation of myogenic differentiation of embryonic muscle cells. Regulates the circadian clock by modulating its intrinsic circadian rhythm and its capacity to respond to external cues. Associates with clock proteins and deubiquitinates core clock component PER1 but does not affect its overall stability. Regulates the nucleocytoplasmic shuttling and nuclear retention of PER1 and its repressive role on the clock transcription factors CLOCK and ARNTL/BMAL1 (By similarity).

Application Notes

Titration of the USP2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A partial recombinant protein corresponding to amino acids 1-258 from the human protein was used as the immunogen for the USP2 antibody.

Storage

Aliquot the USP2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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