

Product datasheet for **AM06486SU-N**

USP7 Mouse Monoclonal Antibody [Clone ID: 5F11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5F11
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 1/10000. Western Blot: 1/500 - 1/2000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of Human HAUSP expressed in E. Coli.
Specificity:	Recognizes HAUSP
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	128 kDa
Gene Name:	ubiquitin specific peptidase 7 (herpes virus-associated)
Database Link:	Entrez Gene 7874 Human Q93009



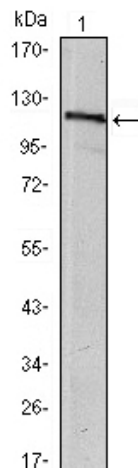
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Background:

USP7 or HAUSP is a ubiquitin specific protease or a deubiquitylating enzyme that cleaves ubiquitin from its substrates. Since ubiquitylation (polyubiquitination) is most commonly associated with the stability and degradation of cellular proteins, HAUSP activity generally stabilizes its substrate proteins. HAUSP is most popularly known as a direct antagonist of Mdm2, the E3 ubiquitin ligase for the tumor suppressor protein, p53. Normally, p53 levels are kept low in part due to Mdm2-mediated ubiquitylation and degradation of p53. Interestingly, in response to oncogenic insults, HAUSP can deubiquitinate p53 and protect p53 from Mdm2-mediated degradation, indicating that it may possess a tumor suppressor function for the immediate stabilization of p53 in response to stress. Another important role of HAUSP function involves the oncogenic stabilization of p53. Oncogenes such as Myc and E1A are thought to activate p53 through a p19 alternative reading frame (p19ARF, also called ARF)-dependent pathway, although some evidence suggests ARF is not essential in this process. An intriguing possibility is that HAUSP provides an alternative pathway for safeguarding the cell against oncogenic insults.

Synonyms:

Ubiquitin carboxyl-terminal hydrolase 7

Product images:

Western blot analysis using HAUSP antibody Cat.-No AM06486SU-N against MCF-7 (1) cell lysate.