Datasheet for ABIN969186

# anti-USP7 antibody

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## Overview

| | |
|---|---|
| Quantity: | 100 µL |
| Target: | USP7 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Application: | Western Blotting (WB), ELISA |

## Product Details

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| Immunogen: | Purified recombinant fragment of human HAUSP expressed in E. coli. |
| Clone: | 5F11 |
| Isotype: | IgG1 |
| Purification: | purified |

## Target Details

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|---|---|
| Target: | USP7 |
| Alternative Name: | HAUSP (USP7 Products) |
| Background: | Description: 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 acitivity 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, |

 

## Target Details

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| | 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.<br>Aliases: TEF1, HAUSP, USP7 |
| Molecular Weight: | 128 kDa |
| Gene ID: | 7874 |
| HGNC: | 7874 |

## Application Details

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|---|---|
| Application Notes: | ELISA: 1:10000, WB: 1:500 - 1:2000 |
| Restrictions: | For Research Use only |

## Handling

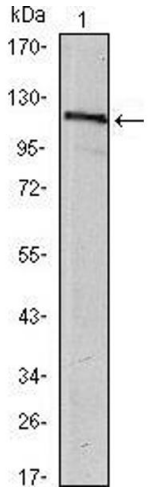
| | |
|---|---|
| Format: | Liquid |
| Buffer: | Ascitic fluid containing 0.03 % sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | 4°C, -20°C for long term storage |

## Publications

| | |
|---|---|
| Product cited in: | Trilck, Peter, Zheng, Frank, Dobrenis, Mascher, Rolfs, Frech: "Diversity of glycosphingolipid GM2 and cholesterol accumulation in NPC1 patient-specific iPSC-derived neurons." in: **Brain research**, Vol. 1657, pp. 52-61, (2016) (PubMed). |

## Publications

## Images




**Western Blotting**

**Image 1.** Western blot analysis using HAUSP mouse mAb against MCF-7 (1) cell lysate.