

Mouse anti-Human USP7 Monoclonal Antibody | anti-USP7 antibody

Anti-USP7 Antibody, Mouse Monoclonal

CATALOG # AAA255460	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA
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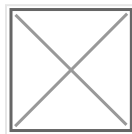
PRODUCT SYNONYMS

USP7; Monoclonal Antibody; Anti-USP7 Antibody; Mouse Monoclonal; USP7/HAUSP Antibody; Mouse MAb; ubiquitin specific peptidase 7 (herpes virus-associated); Anti-HAUSP Antibody; Anti-TEF1 Antibody; anti-USP7 antibody

PRODUCT SPECIFICATIONS

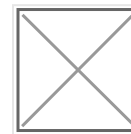
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Number	03
Specificity	Human USP7/HAUSP
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-USP7 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	Recombinant Human USP7/HAUSP protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human USP7/HAUSP (rh USP7/HAUSP). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human USP7 expression on Jurkat cells. The cells were treated according to manufacturer's manual (BD Pharmingen[®]), stained with purified anti-Human USP7, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of Human USP7 in A431 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-Human USP7 monoclonal antibody (1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody(green). Positive staining was localized to cytoplasm and nucleus.

ADDITIONAL INFORMATION

Related Product Information for anti-USP7 antibody	Ubiquitin carboxyl-terminal hydrolase 7, also known as Ubiquitin thioesterase 7, Herpesvirus-associated ubiquitin-specific protease, Ubiquitin-specific-processing protease 7, USP7 and HAUSP, is a widely expressed protein that belongs to the peptidase C19 family. USP7 is a member of the family of deubiquitinating enzymes. It is involved in the regulation of stress response pathways, epigenetic silencing and the progress of infections by DNA viruses. USP7 is a protein with a cysteine peptidase core, N-and C-terminal domains required for protein-protein interactions. USP7 contributes to epigenetic silencing of homeotic genes by Polycomb (Pc). USP7 cleaves ubiquitin fusion protein substrates. It deubiquitinates TP53/p53 and MDM2 and strongly stabilizes TP53 even in the presence of excess MDM2. USP7 also induces TP53-dependent cell growth repression and apoptosis. USP7 has key roles in the p53 pathway whereby it stabilizes both p53 and MDM2. Herpes simplex virus type 1 (HSV-1) regulatory protein ICP stimulates lytic infection and the reactivation of quiescent viral genomes. ICP interacts very strongly with USP7. USP7-mediated stabilization of ICP is dominant over ICP-induced degradation of USP7 during productive HSV-1 infection. The biological significance of the ICP-USP7 interaction may be most pronounced in natural infection situations, in which limited amounts of ICP are expressed.
References	Zakut-Houri R., et al., (1985), Human p53 cellular tumor antigen: cDNA sequence and expression in COS cells. EMBO J. 4:1251-1255.Lamb P., et al., (1986), Characterization of the human p53 gene.Mol. Cell. Biol. 6:1379-1385.Harlow E., et al., (1985), Molecular cloning and in vitro expression of a cDNA clone for human cellular tumor antigen p53.Mol. Cell. Biol. 5:1601-1610.

NCBI AND UNIPROT INFORMATION

NCBI GI #	150378533
NCBI GeneID	7874
NCBI Accession #	NP_003461.2
NCBI GenBank Nucleotide #	NM_003470.2
UniProt Accession #	Q93009; A6NMY8; B7Z815; H0Y3G8
Molecular Weight	– Da
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 7 isoform 1
NCBI Official Synonym Full Names	ubiquitin specific peptidase 7 (herpes virus-associated)
NCBI Official Symbol	USP7
NCBI Official Synonym Symbols	TEF1; HAUSP
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 7; Herpes virus-associated ubiquitin-specific protease; deubiquitinating enzyme 7; herpesvirus-associated ubiquitin-specific protease; ubiquitin specific protease 7 (herpes virus-associated); ubiquitin thioesterase 7;
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 7
UniProt Gene Name	USP7
UniProt Synonym Gene Names	HAUSP
UniProt Entry Name	UBP7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.