



HAUSP/USP7 mouse mAb

Catalog No	YP-Ab-02357
Isotype	IgG
Reactivity	Human
Applications	WB
Gene Name	usp7
Protein Name	
Immunogen	Purified recombinant human HAUSP / USP7 protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of HAUSP / USP7 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Deubiquitinating enzyme 7;HAUSP;herpes virus associated;Herpes virus associated ubiquitin specific protease;Herpesvirus-associated ubiquitin-specific protease;TEF 1;tef-1;TEF1;Ubiquitin carboxyl terminal hydrolase 7;Ubiquitin carboxyl-terminal hydrolase 7;Ubiquitin specific peptidase 7 (herpes virus associated);Ubiquitin specific peptidase 7;Ubiquitin specific peptidase 7 herpes virus associated;Ubiquitin specific processing protease 7;Ubiquitin specific protease 7 (herpes virus associated);Ubiquitin Specific Protease 7;Ubiquitin specific protease 7 herpes virus associated;Ubiquitin thioesterase 7;ubiquitin thiolesterase 7;Ubiquitin-specific-processing protease 7;UBP 7;UBP-7;UBP7;UBP7_HUMAN;USP 7;usp-7;USP7;VMW110-ASSOCIATED PROTEIN,135-KD.
Observed Band	135kD
Cell Pathway	Nucleus . Cytoplasm . Nucleus, PML body . Chromosome . Present in a minority of ND10 nuclear bodies. Association with ICP0/VMW110 at early times of infection leads to an increased proportion of USP7-containing ND10. Colocalizes with ATXN1 in the nucleus. Colocalized with DAXX in speckled structures. Colocalized with PML and PTEN in promyelocytic leukemia protein (PML) nuclear bodies.


Tissue Specificity

Expressed in neural progenitor cells (at protein level) (PubMed:21258371). Widely expressed. Overexpressed in prostate cancer.

Function

catalytic activity: Ubiquitin C-terminal thioester + H₂O = ubiquitin + a thiol., enzyme regulation: Inhibited by N-ethyl-maleimide (NEM) and divalent cations. Tolerates high concentrations of NaCl but is inhibited at concentrations of 195 mM and higher., function: Cleaves ubiquitin fusion protein substrates. Deubiquitinates TP53/p53 and MDM2 and strongly stabilizes TP53 even in the presence of excess MDM2, and also induces TP53-dependent cell growth repression and apoptosis., PTM: Polyubiquitinated., similarity: Belongs to the peptidase C19 family., similarity: Contains 1 MATH domain., subcellular location: Present in a minority of ND10 nuclear bodies. Association with VMW110 at early times of infection leads to an increased proportion of USP7-containing ND10. Colocalizes with ATXN1 in the nucleus., subunit: Monomer. Interacts with TP53, MDM2 and UBXN6. Interacts with herpesvirus

Background

The protein encoded by this gene belongs to the peptidase C19 family, which includes ubiquitinyl hydrolases. This protein deubiquitinates target proteins such as p53 (a tumor suppressor protein) and WASH (essential for endosomal protein recycling), and regulates their activities by counteracting the opposing ubiquitin ligase activity of proteins such as HDM2 and TRIM27, involved in the respective process. Mutations in this gene have been implicated in a neurodevelopmental disorder. [provided by RefSeq, Mar 2016],

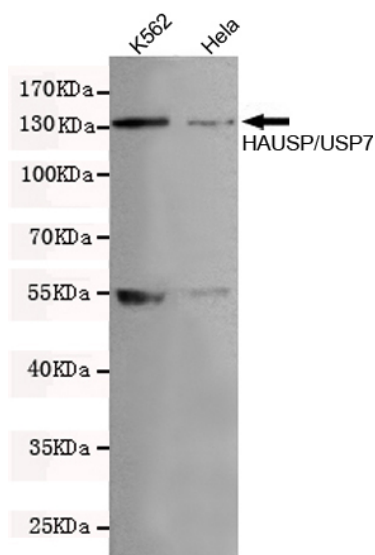
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot detection of HAUSP / USP7 in HeLa and K562 cell lysates using HAUSP / USP7 mouse mAb (1:200 diluted), with super ECL. Predicted band size: 135KDa. Observed band size: 135KDa.