

Immunotag™ HAUSP Monoclonal Antibody

Antibody Specification	
Catalog No.	ITM1039
Product Description	Immunotag™ HAUSP Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	HAUSP
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB,IF
Recommended Dilution	Western Blot: 1/1000 - 1/2000. Immunofluorescence: 1/100 - 1/500. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat,Dog,Pig
Host Species	Mouse
Immunogen	Purified recombinant human HAUSP (C-terminus) protein fragments expressed in Ecoli
Specificity	HAUSP Monoclonal Antibody detects endogenous levels of HAUSP protein.
Purification	Affinity purification
Form	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Gene Name	USP7
Accession No.	Q93009 Q6A4J8 Q4VSI4
Alternate Names	USP7; HAUSP; Ubiquitin carboxyl-terminal hydrolase 7; Deubiquitinating enzyme 7; Herpesvirus-associated ubiquitin-specific protease; Ubiquitin thioesterase 7; Ubiquitin-specific-processing protease 7

Antibody Specification

Description	ubiquitin specific peptidase 7(USP7) Homo sapiens 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],
Protein Expression	Epithelium,Mammary cancer,Testis,
Subcellular Localization	nucleus,nucleoplasm,cytosol,nuclear body,PML body,
Protein Function	catalytic activity:Ubiquitin C-terminal thioester + H(2)O = 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:Polyneddylated.,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 1 trans-acting transcriptional protein ICP0/VMW110 and Epstein-Barr virus EBNA1. EBNA1 shows a 10-fold higher affinity than TP53 and can compete with it for USP7 binding. Binding to VMW110 may modulate the substrate specificity or activity of USP7 to stabilize viral proteins. Interacts with ATXN1 and the strength of interaction is influenced by the length of the poly-Gln region in ATXN1. A weaker interaction is seen with mutants having longer poly-Gln regions.,tissue specificity:Widely expressed.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.