



USP16 Polyclonal Antibody

Catalog No	YP-Ab-02829
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	USP16
Protein Name	Ubiquitin carboxyl-terminal hydrolase 16
Immunogen	Synthesized peptide derived from the Internal region of human USP16.
Specificity	USP16 Polyclonal Antibody detects endogenous levels of USP16 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	USP16; MSTP039; Ubiquitin carboxyl-terminal hydrolase 16; Deubiquitinating enzyme 16; Ubiquitin thioesterase 16; Ubiquitin-processing protease UBP-M; Ubiquitin-specific-processing protease 16
Observed Band	93kD
Cell Pathway	Nucleus .
Tissue Specificity	Present in all the tissues examined including fetal brain, lung, liver, kidney, and adult heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Function	catalytic activity:Ubiquitin C-terminal thioester + H(2)O = ubiquitin + a thiol.,disease:A chromosomal aberration involving USP16 is a cause of Chronic myelomonocytic leukemia. Inversion inv(21) (q21;q22) with RUNX1/AML1.,domain:The UBP-type zinc finger binds 3 zinc ions that form a pair of cross-braced ring fingers encapsulated within a third zinc finger in the primary structure. It recognizes the C-terminal tail of free ubiquitin.,function:Specifically deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser-10' of histone H3, and is required for chromosome segregation when cells enter into mitosis. Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B.,PTM:Ph



Background

This gene encodes a deubiquitinating enzyme that is phosphorylated at the onset of mitosis and then dephosphorylated at the metaphase/anaphase transition. It can deubiquitinate H2A, one of two major ubiquitinated proteins of chromatin, in vitro and a mutant form of the protein was shown to block cell division. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008],

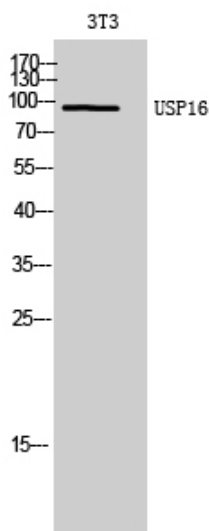
matters needing attention

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 analysis of 3T3 cells using USP16 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000