ARG55491
anti-USP16 / UBP-M antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes USP16 / UBP-M
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	USP16 / UBP-M
Species	Human
Immunogen	Recombinant protein of Human USP16
Conjugation	Un-conjugated
Alternate Names	UBP-M; Deubiquitinating enzyme 16; Ubiquitin-processing protease UBP-M; Ubiquitin thioesterase 16; Ubiquitin-specific-processing protease 16; UBPM; EC 3.4.19.12; Ubiquitin carboxyl-terminal hydrolase 16

Application Instructions

Application table

Application	Dilution
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse spleen
Observed Size	100 kDa

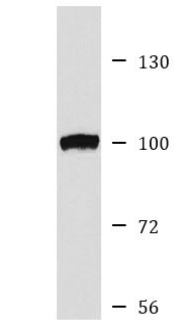
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	USP16
Gene Full Name	ubiquitin specific peptidase 16
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]
Function	Specifically deubiquitinates 'Lys-120' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser-11' of histone H3 (H3S10ph), and is required for chromosome segregation when cells enter into mitosis. In resting B- and T-lymphocytes, phosphorylation by AURKB leads to enhance its activity, thereby maintaining transcription in resting lymphocytes. Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Gene Regulation antibody
Calculated Mw	94 kDa
PTM	Phosphorylated at the onset of mitosis and dephosphorylated during the metaphase/anaphase transition. Phosphorylation by AURKB enhances the deubiquitinase activity.

Images



Mouse spleen

ARG55491 anti-USP16 / UBP-M antibody WB image

Western blot: Mouse spleen lysate stained with ARG55491 anti-USP16 / UBP-M antibody.