ARG54999
anti-USP14 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes USP14
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	889CT6.2.1
Isotype	IgG1
Target Name	USP14
Immunogen	Purified His-tagged USP14 protein.
Conjugation	Un-conjugated
Alternate Names	Deubiquitinating enzyme 14; TGT; Ubiquitin thioesterase 14; Ubiquitin-specific-processing protease 14; Ubiquitin carboxyl-terminal hydrolase 14; EC 3.4.19.12

Application Instructions

Application table

Application	Dilution
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Mouse brain

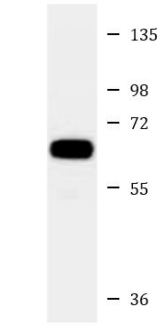
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
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 or below. 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

Database links	GeneID: 59025 Mouse GeneID: 9097 Human Swiss-port # P54578 Human Swiss-port # Q9JMA1 Mouse
Gene Symbol	USP14
Gene Full Name	ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)
Background	This gene encodes a member of the ubiquitin-specific processing (UBP) family of proteases that is a deubiquitinating enzyme (DUB) with His and Cys domains. This protein is located in the cytoplasm and cleaves the ubiquitin moiety from ubiquitin-fused precursors and ubiquitinylated proteins. Mice with a mutation that results in reduced expression of the ortholog of this protein are retarded for growth, develop severe tremors by 2 to 3 weeks of age followed by hindlimb paralysis and death by 6 to 10 weeks of age. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
Function	Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins. Ensures the regeneration of ubiquitin at the proteasome. Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell. Required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis. Serves also as a physiological inhibitor of endoplasmic reticulum-associated degradation (ERAD) under the non-stressed condition by inhibiting the degradation of unfolded endoplasmic reticulum proteins via interaction with ERN1. Indispensable for synaptic development and function at neuromuscular junctions (NMJs). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Gene Regulation antibody
Calculated Mw	56 kDa
Cellular Localization	Cytoplasm. Cell membrane; Peripheral membrane protein

Images



ARG54999 anti-USP14 antibody WB image

Western blot: 35 µg of Mouse brain lysate stained with ARG54999 anti-USP14 antibody.