

ARG43099 anti-USP44 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes USP44
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	USP44
Species	Human
Immunogen	Recombinant protein corresponding to R211-S712 of Human USP44.
Conjugation	Un-conjugated
Alternate Names	Deubiquitinating enzyme 44; Ubiquitin thioesterase 44; EC 3.4.19.12; Ubiquitin carboxyl-terminal hydrolase 44; Ubiquitin-specific-processing protease 44

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000

Application Note
IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control
Rat testis and Mouse testis

Observed Size
~ 83 kDa

Properties

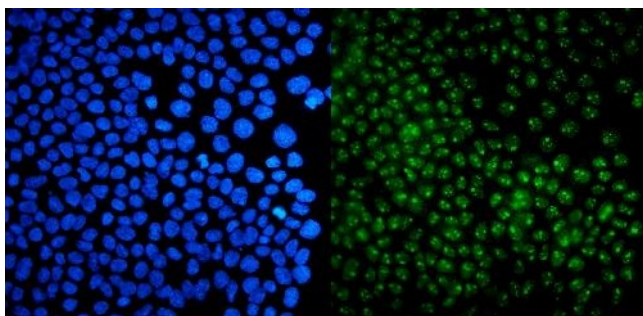
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose

Concentration	0.5 mg/ml
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

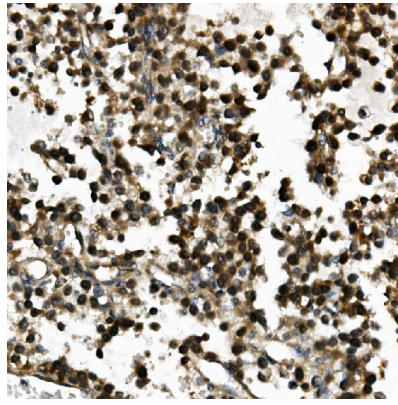
Gene Symbol	USP44
Gene Full Name	ubiquitin specific peptidase 44
Background	The protein encoded by this gene is a protease that functions as a deubiquitinating enzyme. The encoded protein is thought to help regulate the spindle assembly checkpoint by preventing early anaphase onset. This protein specifically deubiquitinates CDC20, which stabilizes the anaphase promoting complex/cyclosome. [provided by RefSeq, Dec 2016]
Function	Deubiquitinase that plays a key regulatory role in the spindle assembly checkpoint or mitotic checkpoint by preventing premature anaphase onset. Acts by specifically mediating deubiquitination of CDC20, a negative regulator of the anaphase promoting complex/cyclosome (APC/C). Deubiquitination of CDC20 leads to stabilize the MAD2L1-CDC20-APC/C ternary complex (also named mitotic checkpoint complex), thereby preventing premature activation of the APC/C. Promotes association of MAD2L1 with CDC20 and reinforces the spindle assembly checkpoint. Acts as a negative regulator of histone H2B (H2BK120ub1) ubiquitination. [UniProt]
Calculated Mw	81 kDa
PTM	Dephosphorylated by CTDP1. Ubiquitinated; undergoes both 'Lys-48'- and 'Lys-63'-linked polyubiquitination and is degraded by the proteasome. [UniProt]
Cellular Localization	Nucleus. Note=Peaks in interphase, with relatively low levels maintained throughout mitosis. [UniProt]

Images



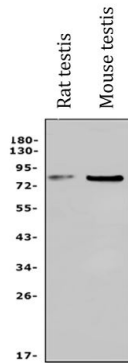
ARG43099 anti-USP44 antibody ICC/IF image

Immunofluorescence: A431 cells were blocked with 10% goat serum and then stained with ARG43099 anti-USP44 antibody (green) at 4 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



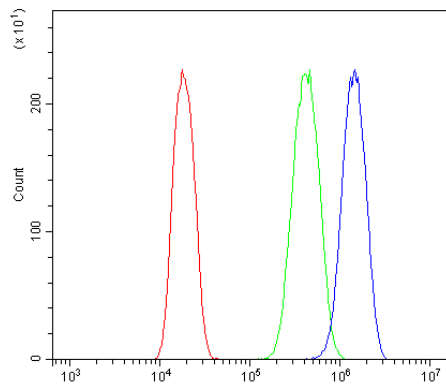
ARG43099 anti-USP44 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human testicular cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43099 anti-USP44 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



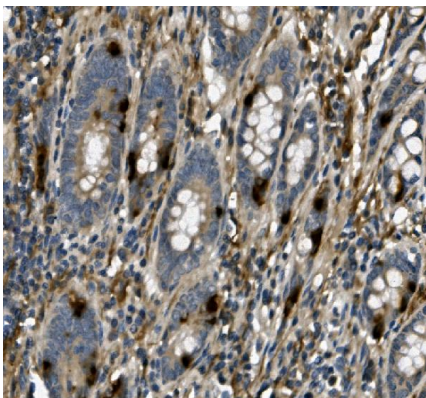
ARG43099 anti-USP44 antibody WB image

Western blot: 50 μg of sample under reducing conditions. Rat testis and Mouse testis lysates stained with ARG43099 anti-USP44 antibody at 0.25 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.



ARG43099 anti-USP44 antibody FACS image

Flow Cytometry: A431 cells were blocked with 10% normal goat serum and then stained with ARG43099 anti-USP44 antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG43099 anti-USP44 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human rectal cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43099 anti-USP44 antibody at 1 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C.