

## ARG41062 anti-RUVBL1 / Pontin antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes RUVBL1 / Pontin
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RUVBL1 / Pontin
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-214 of Human RUVBL1 (NP_003698.1).
Conjugation	Un-conjugated
Alternate Names	ECP-54; Pontin 52; 49 kDa TATA box-binding protein-interacting protein; ECP54; TIP49A; NMP238; EC 3.6.4.12; RuvB-like 1; TIH1; TIP49a; TIP60-associated protein 54-alpha; NMP 238; PONTIN; INO80 complex subunit H; Nuclear matrix protein 238; RVB1; INO80H; 54 kDa erythrocyte cytosolic protein; 49 kDa TBP-interacting protein; Pontin52; TIP49; TAP54-alpha

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	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	55 kDa	

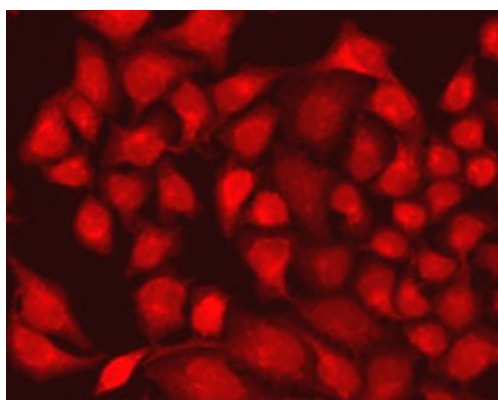
### Properties

Form	Liquid
Purification	Affinity purified.
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.

## Bioinformation

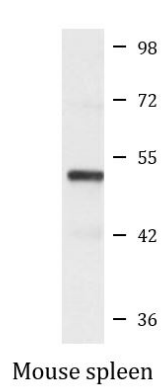
Gene Symbol	RUVBL1
Gene Full Name	RuvB-like AAA ATPase 1
Function	<p>Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (3' to 5') activity; hexamerization is thought to be critical for ATP hydrolysis and adjacent subunits in the ring-like structure contribute to the ATPase activity.</p> <p>Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome.</p> <p>Proposed core component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair.</p> <p>Plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex. Essential for cell proliferation.</p> <p>May be able to bind plasminogen at cell surface and enhance plasminogen activation. [UniProt]</p>
Calculated Mw	50 kDa
Cellular Localization	Nucleus matrix. Nucleus, nucleoplasm. Cytoplasm. Membrane. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Mainly localized in the nucleus, associated with nuclear matrix or in the nuclear cytosol, although it is also present in the cytoplasm and associated with the cell membranes. [UniProt]

## Images



ARG41062 anti-RUVBL1 / Pontin antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG41062 anti-RUVBL1 / Pontin antibody at 1:100 dilution.



ARG41062 anti-RUVBL1 / Pontin antibody WB image

Western blot: 25 µg of Mouse spleen lysate stained with ARG41062 anti-RUVBL1 / Pontin antibody at 1:1000 dilution.