

ARG57073
anti-RUVBL1 / Pontin antibody [1D6]Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1D6] recognizes RUVBL1 / Pontin
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	1D6
Isotype	IgG2a, kappa
Target Name	RUVBL1 / Pontin
Species	Human
Immunogen	Recombinant fragment around aa. 1-456 of Human RUVBL1 / Pontin.
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	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

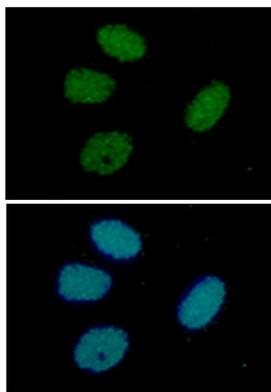
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. 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: 8607 Human Swiss-port # Q9Y265 Human
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

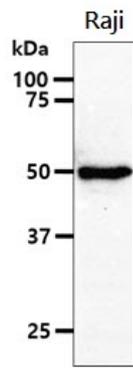
Images



ARG57073 anti-RUVBL1 / Pontin antibody [1D6] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG57073 anti-RUVBL1 / Pontin antibody [1D6] (green) at 1:100 dilution.

DAPI (blue) for nucleus staining.



ARG57073 anti-RUVBL1 / Pontin antibody [1D6] WB image

Western blot: 40 µg of Raji cell lysate stained with ARG57073 anti-RUVBL1 / Pontin antibody [1D6] at 1:1000.