10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RUVBL1 Antibody (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2039a

Product Information

Application	WB, E
Primary Accession	Q9Y265
Other Accession	NP_003698.1
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	507CT2.2.2

Additional Information

Other Names	RuvB-like 1, 49 kDa TATA box-binding protein-interacting protein, 49 kDa TBP-interacting protein, 54 kDa erythrocyte cytosolic protein, ECP-54, INO80 complex subunit H, Nuclear matrix protein 238, NMP 238, Pontin 52, TIP49a, TIP60-associated protein 54-alpha, TAP54-alpha, RUVBL1, INO80H, NMP238, TIP49, TIP49A
Target/Specificity	Purified His-tagged RUVBL1 protein(Fragment) was used to produced this monoclonal antibody.
Dilution	WB~~1:500~8000 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RUVBL1 Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

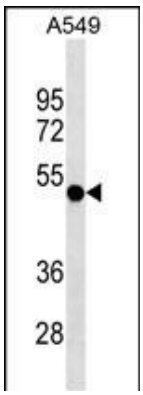
Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (3' to 5') activity. Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification 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. RUVBL1 plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex. May be able to bind plasminogen at cell surface and enhance plasminogen activation. Essential for cell proliferation.

References

Notaridou, M., et al. Int. J. Cancer (2010) In press :
Niewiarowski, A., et al. Biochem. J. 429(1):113-125(2010)
Izumi, N., et al. Sci Signal 3 (116), RA27 (2010) :
Haurie, V., et al. Hepatology 50(6):1871-1883(2009)
McKeegan, K.S., et al. Mol. Cell. Biol. 29(18):4971-4981(2009)

Images



RUVBL1 Antibody (Cat. #AM2039a) western blot analysis in A549 cell line lysates (35µg/lane).This demonstrates the RUVBL1 antibody detected the RUVBL1 protein (arrow).