



# Anti-EMG1 monoclonal antibody, clone 2C9 (DCABH-863)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse monoclonal to EMG1
<b>Antigen Description</b>	Involved in 40S ribosomal subunit biogenesis and 18S rRNA processing. Specifically catalyzes the N1-methylation of pseudouridine at position 1248 (Psi1248) in 18S rRNA. Thus, appears to be the methyltransferase involved in the biosynthesis of the hypermodified N1-methyl-N3-(3-amino-3-carboxypropyl) pseudouridine (m1acp3-Psi) in position 1248 in 18S rRNA. Is not able to methylate uridine at this position.
<b>Immunogen</b>	Recombinant full length Human EMG1 protein (NP_006322) produced in HEK293T cells.
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Rat, Dog, Human, Monkey
<b>Clone</b>	2C9
<b>Purification</b>	This antibody was purified from Mouse ascites fluids by affinity chromatography.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, Flow Cyt, ICC/IF
<b>Positive Control</b>	WB: HEK293T cell lysate transfected with pCMV6-ENTRY EMG1 cDNA; HepG2, HeLa, HT29, A549, COS7, Jurkat, MDCK, PC12 and MCF7 cell lysates ICC/IF: COS7 cells transiently transfected with pCMV6-ENTRY EMG1 Flow Cyt: HeLa and Jurkat cells
<b>Format</b>	Liquid
<b>Size</b>	100 µl

<b>Buffer</b>	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 48% PBS, 1% BSA, 50% Glycerol
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Ship</b>	Shipped at 4°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">EMG1 EMG1 nucleolar protein homolog (S. cerevisiae) [ Homo sapiens ]</a>
<b>Official Symbol</b>	EMG1
<b>Synonyms</b>	EMG1; EMG1 nucleolar protein homolog (S. cerevisiae); ribosomal RNA small subunit methyltransferase NEP1; C2F; Grcc2f; NEP1; essential for mitotic growth 1; ribosome biogenesis protein NEP1; 18S rRNA Psi1248 methyltransferase; 18S rRNA (pseudouridine-N1- )
<b>Entrez Gene ID</b>	<a href="#">10436</a>
<b>Protein Refseq</b>	<a href="#">NP_006322</a>
<b>UniProt ID</b>	<a href="#">Q92979</a>
<b>Chromosome Location</b>	12p13
<b>Pathway</b>	Ribosome biogenesis in eukaryotes, organism-specific biosystem; Ribosome biogenesis in eukaryotes, conserved biosystem;
<b>Function</b>	RNA binding; methyltransferase activity; rRNA (pseudouridine) methyltransferase activity; rRNA binding; transferase activity;