



Anti-Cmlc1 polyclonal antibody (CABT-B479)

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

PRODUCT INFORMATION

Target	Cmlc1
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Zebrafish
Purification	Purified by antigen-affinity chromatography.
Conjugate	Unconjugated
Applications	IHC-Wmt
Format	Liquid
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration)
Size	50 µl
Buffer	1XPBS, 1% BSA, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Preservative	None
Storage	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

BACKGROUND

Introduction	Acts as an adapter protein in a MDM2-DAXX-USP7 complex by regulating the RING-finger E3 ligase MDM2 ubiquitination activity. Under non-stress condition, in association with the deubiquitinating USP7, prevents MDM2 self-ubiquitination and enhances the intrinsic E3 ligase
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activity of MDM2 towards TP53, thereby promoting TP53 ubiquitination and subsequent proteasomal degradation. Upon DNA damage, its association with MDM2 and USP7 is disrupted, resulting in increased MDM2 autoubiquitination and consequently, MDM2 degradation, which leads to TP53 stabilization. Proposed to mediate activation of the JNK pathway and apoptosis via MAP3K5 in response to signaling from TNFRSF6 and TGFBR2. Interaction with HSPB1/HSP27 may prevent interaction with TNFRSF6 and MAP3K5 and block DAXX-mediated apoptosis. In contrast, in lymphoid cells JNC activation and TNFRSF6-mediated apoptosis may not involve DAXX. Seems to regulate transcription in PML/POD/ND10 nuclear bodies together with PML and may influence TNFRSF6-dependent apoptosis thereby. Down-regulates basal and activated transcription. Seems to act as a transcriptional corepressor and inhibits PAX3 and ETS1 through direct protein-protein interaction. Modulates PAX5 activity. Its transcription repressor activity is modulated by recruiting it to subnuclear compartments like the nucleolus or PML/POD/ND10 nuclear bodies through interactions with MCSR1 and PML, respectively.

Keywords zgc:103441;cardiac myosin light chain-1;cmlc1

GENE INFORMATION

Synonyms zgc:103441; cardiac myosin light chain-1
