

## LEMD2 Rabbit pAb

CatalogNo: YN7730

### | Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB

#### MW

- 55kD (Calculated)

#### Isotype

- IgG

### | Recommended Dilution Ratios

WB 1:500-2000

### | Storage

#### Storage\*

-15°C to -25°C/1 year (Do not lower than -25°C)

#### Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### | Basic Information

#### Clonality

Polyclonal

### | Immunogen Information

#### Immunogen

Synthesized peptide derived from human LEMD2

#### Specificity

This antibody detects endogenous levels of LEMD2 at Human, Mouse

### | Target Information

#### Gene name

LEMD2

<b>Protein Name</b>	LEM domain-containing protein 2 (hLEM2)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">221496</a> ;	<a href="#">Q8NC56</a> ;
	Mouse	<a href="#">224640</a> ;	<a href="#">Q6DVA0</a> ;
<b>Cellular Localization</b>	Nucleus inner membrane ; Multi-pass membrane protein . Nucleus envelope . Cytoplasm, cytoskeleton, spindle . Lamina-associated protein residing in the inner nuclear membrane (INM) of the nuclear envelope (NE) (PubMed:16339967). The localization to the INM is dependent on LMNA (PubMed:16339967). Evenly distributed around the NE during interphase (PubMed:16339967). During metaphase, found in a reticular network (PubMed:28242692). Recruited to the reforming NE on chromatin disks in early anaphase (PubMed:28242692). In late anaphase, concentrates at the NE core proximal to spindle microtubules, and then broadening to a distributed nuclear rim pattern (PubMed:28242692, PubMed:32494070). .		
<b>Tissue specificity</b>	Ubiquitously expressed, including bone marrow, brain, kidney, colon, skeletal muscle, thymus, testis and uterus.		
<b>Function</b>	Nuclear lamina-associated inner nuclear membrane protein that is involved in nuclear structure organization, maintenance of nuclear envelope integrity and nuclear envelope reformation after mitosis . Plays a role as transmembrane adapter for the endosomal sorting complexes required for transport (ESCRT), and is thereby involved in ESCRT-mediated nuclear envelope reformation . Promotes ESCRT-mediated nuclear envelope closure by recruiting CHMP7 and downstream ESCRT-III proteins IST1/CHMP8 and CHMP2A to the reforming NE during anaphase . During nuclear reassembly, condenses into a liquid-like coating around microtubule spindles and coassembles with CHMP7 to form a macromolecular O-ring seal at the confluence between membranes, chromatin, and the spindle to facilitate early nuclear sealing . Required for embryonic development and involved in regulation of several signaling pathways such as MAPK and AKT (By similarity). Required for myoblast differentiation involving regulation of ERK signaling (By similarity).		

## | Validation Data

## | Contact information

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