

## Product datasheet for **CF500796**

### MAN1 (LEMD3) Mouse Monoclonal Antibody [Clone ID: OTI3H1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3H1
Applications:	FC, IF, IP, WB
Recommended Dilution:	WB 1:500, IF 1:100, Flow 1:100, IP 2-4ug/mg
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human LEMD3 (NP_055134) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	100.0 kDa
Gene Name:	LEM domain containing 3
Database Link:	<a href="#">NP_055134</a> <a href="#">Entrez Gene 380664 Mouse</a> <a href="#">Entrez Gene 680066 Rat</a> <a href="#">Entrez Gene 608380 Dog</a> <a href="#">Entrez Gene 717597 Monkey</a> <a href="#">Entrez Gene 23592 Human</a> <a href="#">Q9Y2U8</a>



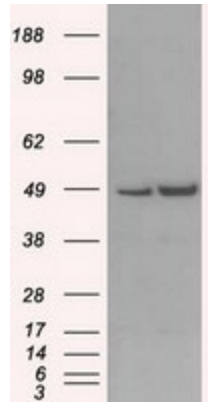
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**Background:** This locus encodes a LEM domain-containing protein. The encoded protein functions to antagonize transforming growth factor-beta signaling at the inner nuclear membrane. Two transcript variants encoding different isoforms have been found for this gene. Mutations in this gene have been associated with osteopoikilosis, Buschke-Ollendorff syndrome and melorheostosis

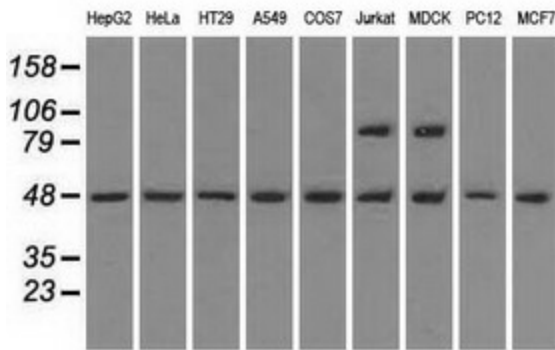
**Synonyms:** MAN1

**Protein Families:** Transmembrane

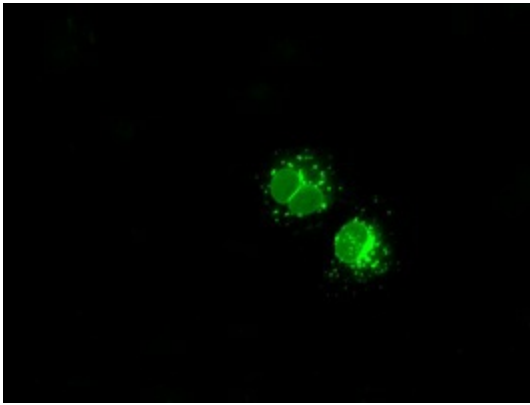
**Product images:**



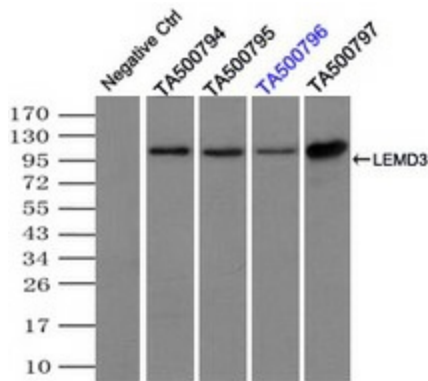
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY LEMD3 ([RC212759], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LEMD3.



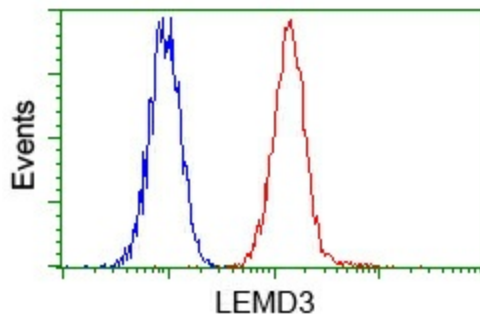
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-LEMD3 monoclonal antibody.



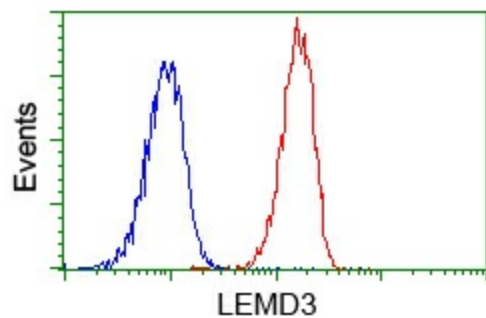
Anti-LEMD3 mouse monoclonal antibody ([TA500796]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY LEMD3 ([RC212759]).



Immunoprecipitation of LEMD3 by using TrueMab monoclonal anti-LEMD3 antibody (Negative control: IP without adding anti-LEMD3 antibody). For each experiment, 500ul of DDK tagged LEMD3 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-LEMD3 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.



Flow cytometric analysis of HeLa cells, using anti-LEMD3 antibody ([TA500796]), (Red) compared to a nonspecific negative control antibody (TA50011) (Blue).



Flow cytometric analysis of Jurkat cells, using anti-LEMD3 antibody ([TA500796]), (Red) compared to a nonspecific negative control antibody (TA50011) (Blue).