

## Product datasheet for **CF500795**

### **MAN1 (LEMD3) Mouse Monoclonal Antibody [Clone ID: OTI3H2]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI3H2
<b>Applications:</b>	IP, WB
<b>Recommended Dilution:</b>	WB 1:500, IF 1:100, IP 2-4ug/mg
<b>Reactivity:</b>	Human, Dog, Monkey, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human LEMD3 (NP_055134) produced in HEK293T cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	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)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	100.0 kDa
<b>Gene Name:</b>	LEM domain containing 3
<b>Database Link:</b>	<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>



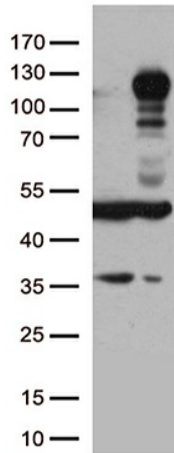
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**Background:** This locus encodes a LEM domain-containing protein. The encoded protein functions to antagonize transforming growth factor-beta signaling at the inner nuclear membrane. Two transcript variants encoding different isoforms have been found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

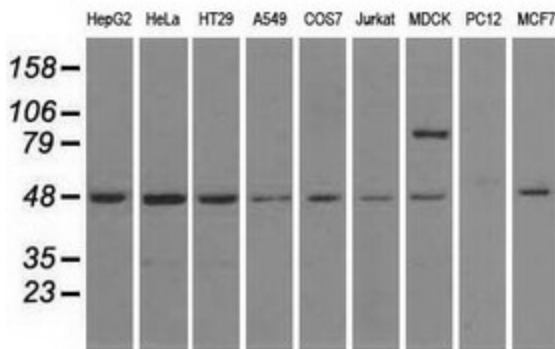
**Synonyms:** MAN1

**Protein Families:** Transmembrane

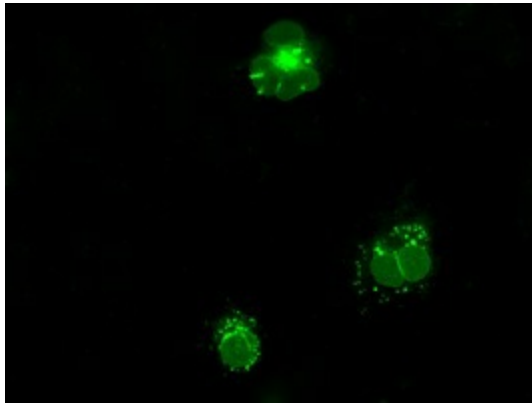
**Product images:**



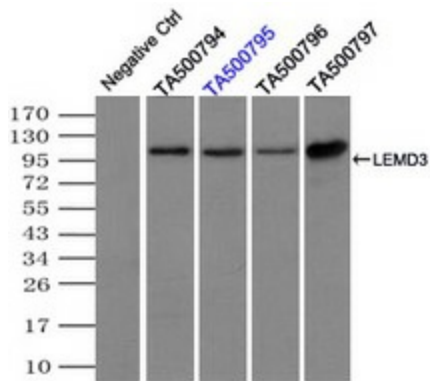
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY LEMD3 ([RC212759], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LEMD3. Positive lysates [LY402311] (100ug) and [LC402311] (20ug) can be purchased separately from OriGene.



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



Anti-LEMD3 mouse monoclonal antibody ([TA500795]) 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.