

## Product datasheet for **CF502137**

### **LMAN1 Mouse Monoclonal Antibody [Clone ID: OT11A8]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OT11A8
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:200~500, IHC 1:150, IF 1:100, FLOW 1:100
<b>Reactivity:</b>	Human, Monkey, Mouse, Rat, Dog
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human LMAN1 (NP_005561) 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>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	54.2 kDa
<b>Gene Name:</b>	Homo sapiens lectin, mannose binding 1 (LMAN1), mRNA.
<b>Database Link:</b>	<u><a href="#">NP_005561 Entrez Gene</a></u> <u><a href="#">70361 MouseEntrez Gene</a></u> <u><a href="#">116666 RatEntrez Gene</a></u> <u><a href="#">476186 DogEntrez Gene</a></u> <u><a href="#">697449 MonkeyEntrez Gene</a></u> <u><a href="#">3998 Human</a></u>



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**Background:**

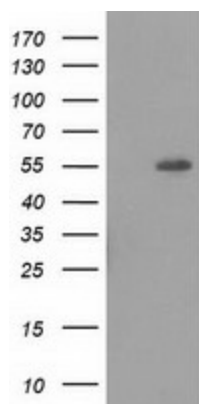
The protein encoded by this gene is a type I integral membrane protein localized in the intermediate region between the endoplasmic reticulum and the Golgi, presumably recycling between the two compartments. The protein is a mannose-specific lectin and is a member of a novel family of plant lectin homologs in the secretory pathway of animal cells. Mutations in the gene are associated with a coagulation defect. Using positional cloning, the gene was identified as the disease gene leading to combined factor V-factor VIII deficiency, a rare, autosomal recessive disorder in which both coagulation factors V and VIII are diminished. [provided by RefSeq]

**Synonyms:**

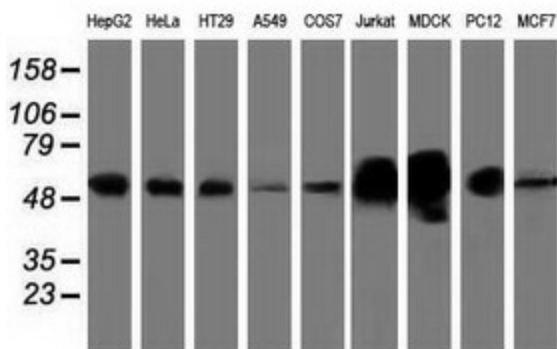
ERGIC-53; ERGIC53; F5F8D; FMFD1; gp58; MCFD1; MR60

**Protein Families:**

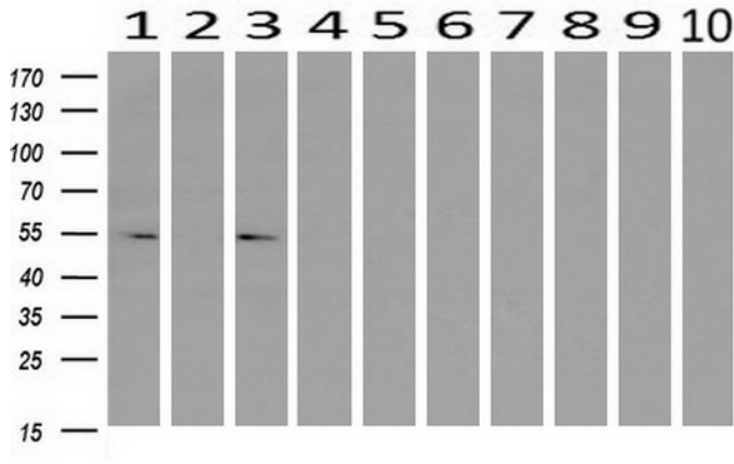
Druggable Genome, Transmembrane

**Product images:**


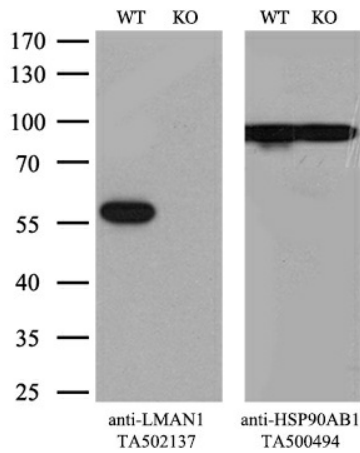
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY LMAN1 [RC207088], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LMAN1. Positive lysates [LY401709] (100ug) and [LC401709] (20ug) can be purchased separately from OriGene.



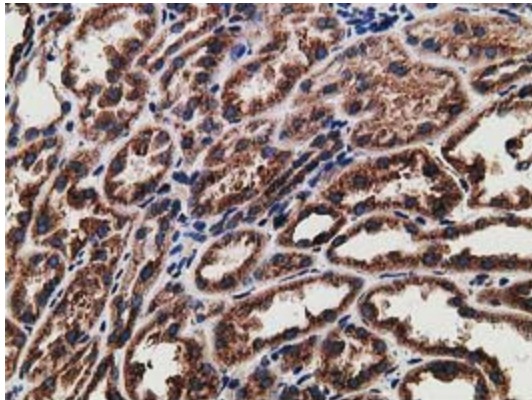
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-LMAN1 monoclonal antibody.



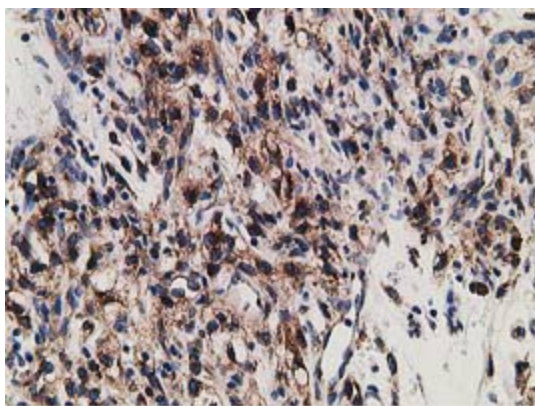
Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-LMAN1 monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon;10: spleen).



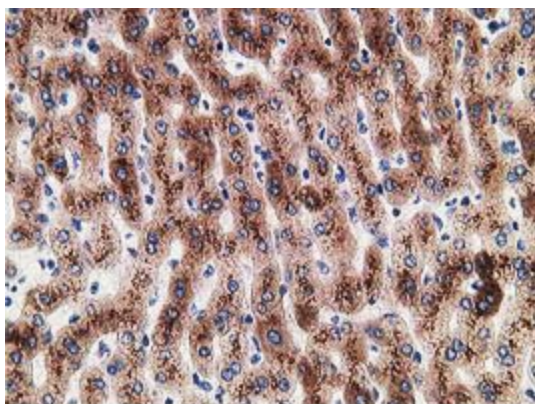
Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and LMAN1-Knockout 293T cells (KO, Cat# [LC812175]) were separated by SDS-PAGE and immunoblotted with anti-LMAN1 monoclonal antibody [TA502137], (1:1000). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.



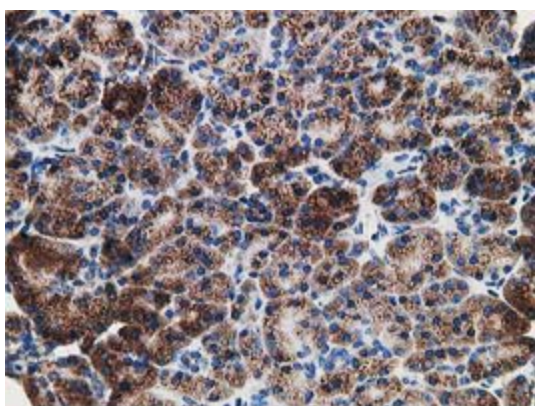
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-LMAN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502137])



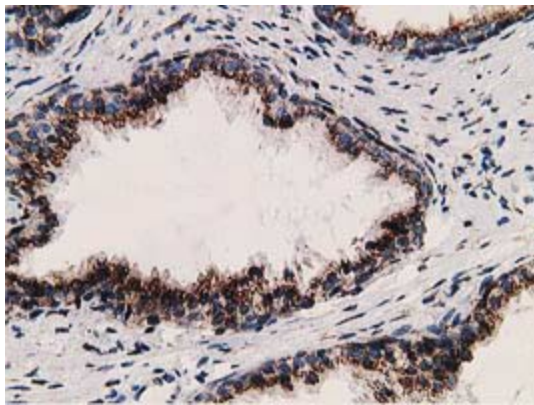
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-LMAN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502137])



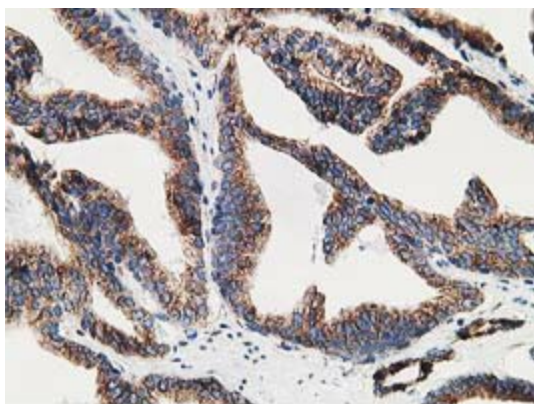
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-LMAN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502137])



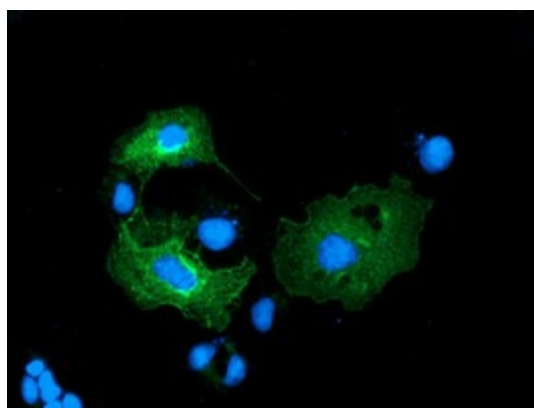
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-LMAN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502137])



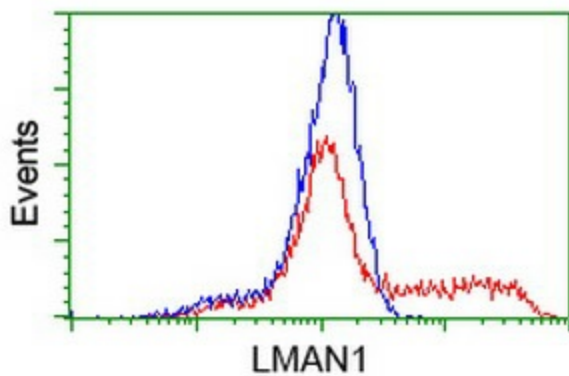
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-LMAN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502137])



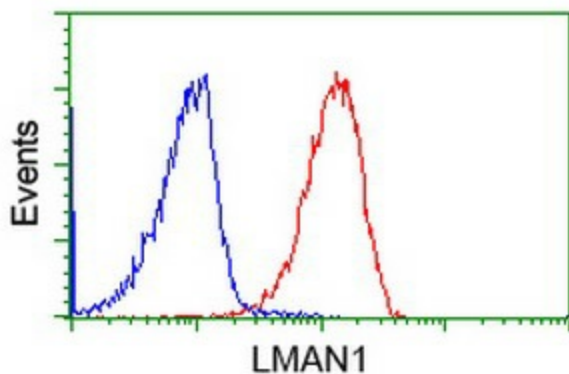
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-LMAN1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502137])



Anti-LMAN1 mouse monoclonal antibody ([TA502137]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY LMAN1 ([RC207088]).



HEK293T cells transfected with either [RC207088] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-LMAN1 antibody ([TA502137]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-LMAN1 antibody ([TA502137]), (Red), compared to a nonspecific negative control antibody ([TA50011]), (Blue).