

Rabbit LMAN1 Polyclonal Antibody | anti-LMAN1 antibody

Anti-LMAN1 Antibody

CATALOG # AAA124954	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

LMAN1; Polyclonal Antibody; Anti-LMAN1 Antibody; Protein ERGIC-53; ER-Golgi intermediate compartment 53 kDa protein; Gp58; Intracellular mannose-specific lectin MR60; Lectin mannose-binding 1; ERGIC53; F5F8D; Lectin; mannose binding 1; anti-LMAN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	510
Applicable Applications for anti-LMAN1 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human LMAN1 recombinant protein (Position: K96-M458).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of LMAN1 using anti-LMAN1 antibody. LMAN1 was detected in paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LMAN1 antibody. LMAN1 was detected in paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LMAN1 antibody. LMAN1 was detected in paraffin-embedded section of human oesophagus squama cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LMAN1 antibody. LMAN1 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LMAN1 antibody. LMAN1 was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-LMAN1 antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of LMAN1 using anti-LMAN1 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HL-60 whole cell lysate, Lane 2: human A431 whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LMAN1 antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for LMAN1 at approximately 58KD. The expected band size for LMAN1 is at 58KD.

ADDITIONAL INFORMATION

Related Product Information for anti-LMAN1 antibody	Description: Rabbit IgG polyclonal antibody for LMAN1 detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat. Background: Protein ERGIC-53 also known as ER-Golgi intermediate compartment 53 kDa protein or lectin mannose-binding 1 is a protein that in humans is encoded by the LMN1 gene. It is mapped to 18q21.32. The protein encoded by this gene is a membrane mannose-specific lectin that cycles between the endoplasmic reticulum, endoplasmic reticulum-Golgi intermediate compartment, and cis-Golgi, functioning as a cargo receptor for glycoprotein transport. The protein has an N-terminal signal sequence, a calcium-dependent and pH-sensitive carbohydrate recognition domain, a stalk region that functions in oligomerization, a transmembrane domain, and a short cytoplasmic domain required for organelle targeting. Allelic variants of this gene are associated with the autosomal recessive disorder combined factor V-factor VIII deficiency.
References	1. Neve, E. P. A., Svensson, K., Fuxe, J., Petterson, R. F. VIPL, a VIP36-like membrane protein with a putative function in the export of glycoproteins from the endoplasmic reticulum. Exp. Cell Res. 288: 70-83, 2003. 2. Zhang, B., Spreafico, M., Zheng, C., Yang, A., Platzer, P., Callaghan, M. U., Avci, Z., Ozbek, N., Mahlangu, J., Haw, T., Kaufman, R. J., Marchant, K., Tuddenham, E. G. D., Seligsohn, U., Peyvandi, F., Ginsburg, D. Genotype-phenotype correlation in combined deficiency of factor V and factor VIII. Blood 111: 5592-5600, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031873
NCBI GeneID	3998
NCBI Accession #	NP_005561.1
NCBI GenBank Nucleotide #	NM_005570.4
UniProt Accession #	P49257; Q12895; Q8N5I7; Q9UQG1; Q9UQG2; Q9UQG3; Q9UQG4; Q9UQG5; Q9UQG6; Q9UQG7; Q9UQG8; Q9UQG9
Molecular Weight	57,549 Da
NCBI Official Full Name	protein ERGIC-53
NCBI Official Synonym Full Names	lectin, mannose binding 1

NCBI Official Symbol	LMAN1
NCBI Official Synonym Symbols	MR60; gp58; F5F8D; FMFD1; MCFD1; ERGIC53; ERGIC-53
NCBI Protein Information	protein ERGIC-53
UniProt Protein Name	Protein ERGIC-53
UniProt Gene Name	LMAN1
UniProt Synonym Gene Names	ERGIC53; F5F8D

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lman1-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/124954>