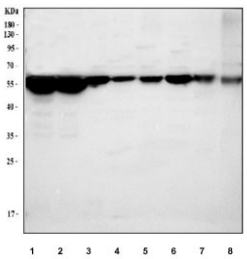
LMAN1 Antibody / ERGIC-53 (RQ4585)

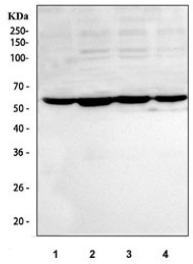
Catalog No.	Formulation	Size
RQ4585	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

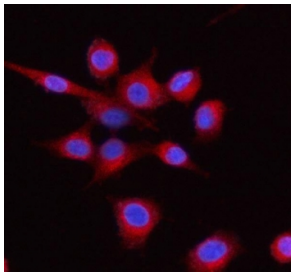
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P49257
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml (human recombinant protein)
Limitations	This LMAN1 antibody is available for research use only.



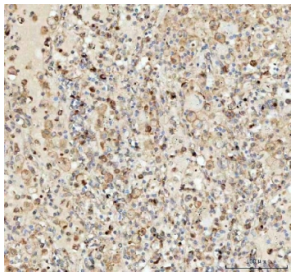
Western blot testing of 1) human A431, 2) human HepG2, 3) rat liver, 4) rat heart, 5) rat C6, 6) mouse liver, 7) mouse heart and 8) mouse NIH 3T3 cell lysate with LMAN1 antibody. Predicted molecular weight ~53 kDa.



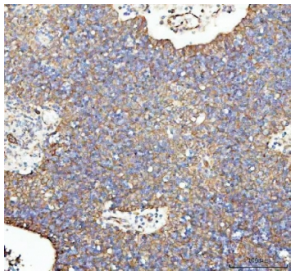
Western blot testing of human 1) A549, 2) HepG2, 3) HeLa and 4) 293T cell lysate with LMAN1 antibody. Predicted molecular weight ~53 kDa.



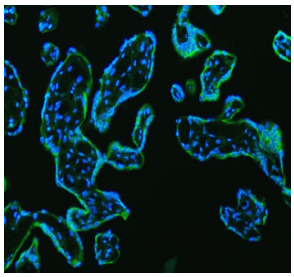
Immunofluorescent staining of FFPE human A549 cells with LMAN1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



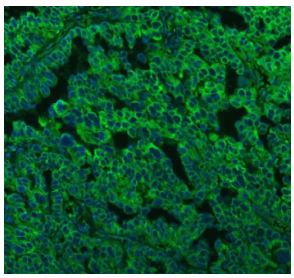
IHC staining of FFPE human lung cancer tissue with LMAN1 antibody. HIER: boil tissue sections in pH8 EDTA buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE human spleen tissue with LMAN1 antibody. HIER: boil tissue sections in pH8 EDTA buffer, for 10-20 min followed by cooling at RT for 20 min.



Immunofluorescent staining of FFPE human placental tissue with LMAN1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



Immunofluorescent staining of FFPE human ovarian cancer tissue with LMAN1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.

Description

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 LMAN1 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.

Application Notes

Optimal dilution of the LMAN1 antibody should be determined by the researcher.

Immunogen

Amino acids K96-M458 from the human protein were used as the immunogen for the LMAN1 antibody.

Storage

After reconstitution, the LMAN1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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