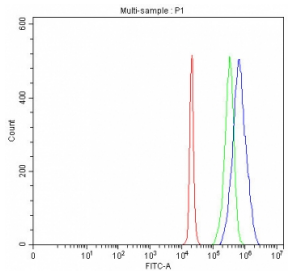
# MAN1 Antibody / LEMD3 (RQ8637)

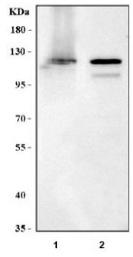
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ8637 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | Q9Y2U8 |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>ELISA : 0.1-0.5ug/ml |
| **Limitations** | This MAN1 antibody is available for research use only. |




Flow cytometry testing of fixed and permeabilized human 293T cells with MAN1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MAN1 antibody.




Western blot testing of human 1) HaCat and 2) K562 cell lysate with MAN1 antibody. Predicted molecular weight ~100 kDa, commonly observed at 100-110 kDa.

## Description

LEM domain-containing protein 3 (LEMD3), also known as MAN1, is an integral protein in the inner nuclear membrane (INM) of the nuclear envelope. It is encoded by the LEMD3 gene and was first identified after it was isolated from the serum of a patient with a collagen vascular disease. 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.

## Application Notes

Optimal dilution of the MAN1 antibody should be determined by the researcher.

## Immunogen

An E.coli-derived human recombinant protein (amino acids H535-H852) was used as the immunogen for the MAN1 antibody.

## Storage

After reconstitution, the MAN1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.