

## LMF2 (N-13): sc-86708

### BACKGROUND

LMF2 (lipase maturation factor 2), also known as TMEM112B (transmembrane protein 112B) and TMEM153 (transmembrane protein 153), is a 707 amino acid multi-pass membrane protein that localizes to the endoplasmic reticulum (ER) and belongs to the lipase maturation family. LMF2 is involved in the maturation of ER-localized proteins and is required for the transport of active LPL (lipoprotein lipase) through the secretory pathway. The gene encoding LMF2 maps to human chromosome 22, contains over 500 genes and about 49 million bases. Being the second smallest human chromosome 22, contains a surprising variety of interesting genes. Phelan-McDermid syndrome, neurofibromatosis type 2 and autism are associated with chromosome 22. A schizophrenia susceptibility locus has been identified on chromosome 22 and studies show that 22q13.33 deletion symptoms include a high incidence of schizophrenia. There are three isoforms of LMF2 that are expressed as a result of alternative splicing events.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: LMF2 (human) mapping to 22q13.33.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### SOURCE

LMF2 (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of LMF2 of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86708 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

LMF2 (N-13) is recommended for detection of LMF2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

LMF2 (N-13) is also recommended for detection of LMF2 in additional species, including bovine.

Suitable for use as control antibody for LMF2 siRNA (h): sc-75684, LMF2 shRNA Plasmid (h): sc-75684-SH and LMF2 shRNA (h) Lentiviral Particles: sc-75684-V.

Molecular Weight of LMF2: 80 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.