

# LGMN Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant LGMN. Catalog # AT2703a

#### Specification

# LGMN Antibody (monoclonal) (M02) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW E <u>Q99538</u> <u>BC003061</u> Human mouse Monoclonal IgG1 kappa 49411

# LGMN Antibody (monoclonal) (M02) - Additional Information

Gene ID 5641

Other Names Legumain, Asparaginyl endopeptidase, Protease, cysteine 1, LGMN, PRSC1

**Target/Specificity** LGMN (AAH03061.1, 1 a.a. ~ 433 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution E~~N/A

Format Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions** LGMN Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

#### LGMN Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

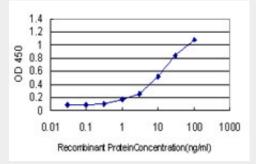
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry



# Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# LGMN Antibody (monoclonal) (M02) - Images



Detection limit for recombinant GST tagged LGMN is approximately 0.1ng/ml as a capture antibody.

# LGMN Antibody (monoclonal) (M02) - Background

This gene encodes a cysteine protease that has a strict specificity for hydrolysis of asparaginyl bonds. This enzyme may be involved in the processing of bacterial peptides and endogenous proteins for MHC class II presentation in the lysosomal/endosomal systems. Enzyme activation is triggered by acidic pH and appears to be autocatalytic. Protein expression occurs after monocytes differentiate into dendritic cells. A fully mature, active enzyme is produced following lipopolysaccharide expression in mature dendritic cells. Overexpression of this gene may be associated with the majority of solid tumor types. This gene has a pseudogene on chromosome 13. Several alternatively spliced transcript variants have been described, but the biological validity of only two has been determined. These two variants encode the same isoform.

# LGMN Antibody (monoclonal) (M02) - References

1.Targeting Cell Surface Alpha(v)beta(3,5) Integrins Increases Therapeutic Efficacies of a Legumain Protease-Activated Auristatin Prodrug.Liu Y, Bajjuri KM, Liu C, Sinha SC.Mol Pharm. 2011 Oct 31.