10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LGMN Antibody (monoclonal) (M02)

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

Product Information

Application	E
Primary Accession	Q99538
Other Accession	BC003061
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	M1
Calculated MW	49411

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.

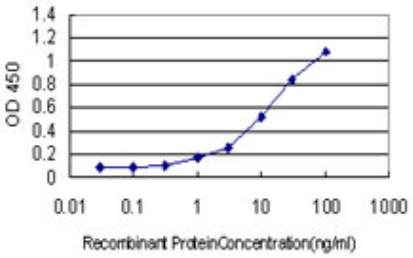
Background

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.

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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.