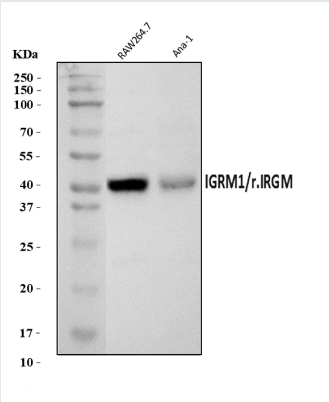
IRGM/Irgm1 (IRGM1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IRGM/Irgm1, Polyclonal Antibody
Full Product Name	Anti-IRGM/Irgm1 Antibody Picoband
Product Gene Name	anti-IRGM1 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	44,888 Da
3D Structure	ModBase 3D Structure for Q60766
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse IRGM/Irgm1 recombinant protein (Position: E50-K333).
Product Categories/Family for anti-IRGM1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-IRGM1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-IRGM1 antibody	WB: 0.25-0.5 ug/ml, Mouse Direct ELISA: 0.1-0.5 ug/ml, Mouse Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot.
Related Product Information for anti-IRGM1 antibody	Immunity-related GTPase family M protein (IRGM), also known as interferon-inducible protein 1 (IFI1), is an enzyme that in humans is IRGM gene. This gene encodes a member of the p47 immunity-related GTPase family. The encoded protein may play a role in the innate immune response by regulating autophagy formation in response to intracellular pathogens. Polymorphisms that affect the normal expression of this gene are associated with a susceptibility to Crohn's disease and tuberculosis. Alternative splicing results in multiple transcript variants encoding different isoforms.
Other Notes	Small volumes of anti-IRGM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IRGM1 purchase	MBS1755939 is an antibody targeting IRGM1. Also known as Anti-IRGM/Irgm1 Antibody Picoband. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-IRGM1 antibody

Figure 1. Western blot analysis of IRGM/Irgm1 using anti-IRGM/Irgm1 antibody (MBS1755939).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: mouse RAW264.7 whole cell lysates.Lane 2: mouse Ana-1 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IRGM/Irgm1 antigen affinity purified polyclonal antibody (#MBS1755939) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for IRGM/Irgm1 at approximately 45 kDa. The expected band size for IRGM/Irgm1 is at 45 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRGM1. It may not necessarily be applicable to this product.

NCBI GI #	6680351
NCBI GeneID	15944
NCBI Accession #	NP_032352.1
UniProt Primary Accession #	Q60766
UniProt Secondary Accession #	Q3TJ73
UniProt Related Accession #	Q60766
GenBank Nucleotide #	NM_008326.2
NCBI Official Full Name	immunity-related GTPase family M protein 1 isoform 1
NCBI Official Synonym Full Names	immunity-related GTPase family M member 1
NCBI Official Symbol	Irgm1
NCBI Official Synonym Symbols	Ifi1; Irgm; Iigp3; Iipg3; Ifggd3
UniProt Protein Name	Immunity-related GTPase family M protein 1
UniProt Synonym Protein Names	Interferon-inducible GTPase 3; Interferon-inducible protein 1; LPS-stimulated RAW 264.7 macrophage protein 47; LRG-47
Protein Family	Immunity-related GTPase family M protein
UniProt Gene Name	Irgm1
UniProt Synonym Gene Names	Ifi1; Iigp3; Irgm; LRG-47
NCBI Protein Information	immunity-related GTPase family M protein 1

UniProt Comments for IRGM1	Putative GTPase which is required for IFNG-mediated clearance of acute protozoan and bacterial infections. Functions in innate immune response probably through regulation of autophagy. May regulate proinflammatory cytokine production and prevent endotoxemia upon infection. Required for macrophage motility and possibly also for adhesion.
Research Articles on IRGM1	**1.** Irgm1/IRGM participates in the polarization of M1 macrophages, is upregulated in human atheromata, and promotes development of atheroma in murine experimental atherosclerosis
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