IRGM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IRGM, Polyclonal Antibody
Full Product Name	IRGM Polyclonal Antibody
Product Gene Name	anti-IRGM antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	20kDa
OMIM	608212
3D Structure	ModBase 3D Structure for A1A4Y4
Immunogen	Recombinant protein of human IRGM (NP_001139277.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IRGM antibody	Western Blot (WB)
Application Notes for anti-IRGM antibody	WB: 1:500-1:2000
Related Product Information for anti-IRGM antibody	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-IRGM 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 IRGM purchase	MBS8573881 is an antibody targeting IRGM. Also known as IRGM Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	224809576
NCBI GeneID	345611
NCBI Accession #	NP_001139277.1
UniProt Primary Accession #	A1A4Y4

UniProt Related Accession #	A1A4Y4
GenBank Nucleotide #	NP_001139277.1
NCBI Official Full Name	immunity-related GTPase family M protein isoform 2
NCBI Official Synonym Full Names	immunity related GTPase M
NCBI Official Symbol	IRGM
NCBI Official Synonym Symbols	IFI1; IRGM1; LRG47; LRG-47
UniProt Protein Name	Immunity-related GTPase family M protein
UniProt Synonym Protein Names	Immunity-related GTPase family M protein 1; Interferon-inducible protein 1; LPS-stimulated RAW 264.7 macrophage protein 47 homolog; LRG-47
Protein Family	Immunity-related GTPase family M protein
UniProt Gene Name	IRGM
UniProt Synonym Gene Names	IFI1; IRGM1; LRG47; LRG-47
UniProt Entry Name	IRGM_HUMAN
NCBI Protein Information	immunity-related GTPase family M protein
UniProt Comments for IRGM	IRGM: Putative GTPase which is required for 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. May also play a role in macrophages adhesion and motility. Defects in IRGM are the cause of susceptibility to inflammatory bowel disease type 19 (IBD19). A chronic, relapsing inflammation of the gastrointestinal tract with a complex etiology. It is subdivided into Crohn disease and ulcerative colitis phenotypes. Crohn disease may affect any part of the gastrointestinal tract from the mouth to the anus, but most frequently it involves the terminal ileum and colon. Bowel inflammation is transmural and discontinuous; it may contain granulomas or be associated with intestinal or perianal fistulas. In contrast, in ulcerative colitis, the inflammation is continuous and limited to rectal and colonic mucosal layers; fistulas and granulomas are not observed. Both diseases include extraintestinal inflammation of the skin, eyes, or joints. Belongs to the interferon-inducible GTPase family. Protein type: Hydrolase; Endoplasmic reticulum; EC 3.6.5.- Chromosomal Location of Human Ortholog: 5q33.1 Cellular Component: Golgi membrane; phagocytic vesicle membrane; cell projection; phagocytic cup Molecular Function: GTP binding; hydrolase activity Biological Process: autophagy; innate immune response; inflammatory response Disease: Mycobacterium Tuberculosis, Susceptibility To; Inflammatory Bowel Disease 19
Research Articles on IRGM	**1.** IRGM variants are associated with Nonalcoholic fatty liver disease.
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