

Mouse anti-Mouse Irgm1 Monoclonal Antibody | anti-Irgm1 antibody

Mouse Irgm1 Antibody (C-term)

CATALOG # AAA283490	HOST Mouse	REACTIVITY Mouse	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

Irgm1; Monoclonal Antibody; Mouse Irgm1 Antibody (C-term); Immunity-related GTPase family M protein 1; 365-; Interferon-inducible GTPase 3; Interferon-inducible protein 1; LPS-stimulated RAW 2647 macrophage protein 47; LRG-47; Ifi1; Iigp3; Irgm; anti-Irgm1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgM
Clone Number	403CT8.5.5
Specificity	Purified His-tagged Mouse Irgm1 protein was used to produced this monoclonal antibody.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.
Sequence Length	409
Applicable Applications for anti-Irgm1 antibody	ELISA, WB (Western Blot)
Function	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 pro- inflammatory cytokine production and prevent endotoxemia upon infection. Required for macrophage motility and possibly also for adhesion.
Cellular Location	Golgi apparatus membrane. Cell membrane. Cytoplasmic vesicle, phagosome membrane. Cytoplasmic vesicle, autophagosome membrane. Lysosome membrane. Late endosome membrane. Cell projection, phagocytic cup. Note=Behaves like an integral membrane protein. Recruited to the plasma membrane around forming phagocytic cups, it remains associated with maturing phagosomes. Association with phagosomes is dependent on nucleotide-binding but is IFNG-independent Preferentially associated with cis- and medial-Golgi. Also detected in late endosomes and lysosomes
Tissue Location	Expressed in lung and primary macrophages
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

All lanes : Anti-Mouse Irgm1 Antibody at 1:2000 dilutionLane 1: Mouse brain lysateLane 2: Mouse heart lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 47 kDa
Blocking/Dilution buffer: 5% NFD/MTBST.



WB (Western Blot)

Mouse Irgm1 western blot analysis in mouse brain tissue lysates (35ug/lane). This demonstrates the Irgm1 antibody detected the Irgm1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-Irgm1 antibody	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.
Product Categories/Family for anti-Irgm1 antibody	Cancer; Cardiovascular; Immunology; Signal transduction
References	Dhar, N., et al. Proc. Natl. Acad. Sci. U.S.A. 107(27):12275-12280(2010) Xu, H., et al. FASEB J. 24(5):1583-1592(2010) Henry, S.C., et al. J. Leukoc. Biol. 87(2):333-343(2010) Zhao, Y.O., et al. PLoS ONE 5 (1), E8648 (2010) : Tiwari, S., et al. Nat. Immunol. 10(8):907-917(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	6680351
NCBI GeneID	15944
NCBI Accession #	NP_032352.1
NCBI GenBank Nucleotide #	NM_008326.1
UniProt Accession #	Q60766; Q3TJ73
NCBI Official Full Name	immunity-related GTPase family M protein 1
NCBI Official Synonym Full Names	immunity-related GTPase family M member 1
NCBI Official Symbol	Irgm1
NCBI Official Synonym Symbols	Ifi1; Irgm; ligp3; lipg3; Ifggd3; LRG-47
NCBI Protein Information	immunity-related GTPase family M protein 1
UniProt Protein Name	Immunity-related GTPase family M protein 1
UniProt Gene Name	Irgm1
UniProt Synonym Gene Names	Ifi1; ligp3; Irgm; LRG-47
UniProt Entry Name	IRGM1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.