

IRGM1 monoclonal antibody

Catalog: MB67131

Host: Mouse

Reactivity: Mouse

BackGround:

Immunity-related GTPase family M protein 1 (IRGM, LRG-47) belongs to the p47 family of immunity related guanosine triphosphatases that regulate innate immune responses to intracellular pathogens. Research studies indicate that IRGM plays a role in autophagy during clearance of intracellular bacteria. Expression of IRGM in mice, but not in humans, is induced by inflammatory signals that include interferon and LPS. Polymorphisms in the corresponding IRGM gene are associated with some cases of tuberculosis, Crohn's disease, and severe sepsis. Additional studies indicate that IRGM functions through regulation of autophagy. Mitochondrial IRGM plays a role in mitochondrial fission, membrane polarization, and mitophagy. Knockout mice for IRGM show increased susceptibility to infection as well as intestinal inflammation and Paneth cell abnormalities. Knockout mice against IRGM are also resistant to neuronal autophagy following stroke. RNA viruses commonly target IRGM in order to suppress autophagy and enhance infection.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 50 kDa

Swiss-Prot:

Q60766

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

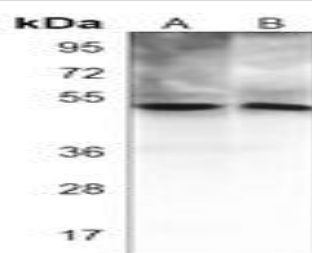
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of IRGM1 protein.

DATA:



Western blot analysis of IRGM1 expression in mouse brain (A), mouse heart (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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