Datasheet for ABIN7601903

anti-IRGM antibody (AA 50-333)

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Overview

Quantity:	100 µg
Target:	IRGM
Binding Specificity:	AA 50-333
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRGM antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-IRGM/Irgm1 Antibody Picoband®
Immunogen:	E.coli-derived mouse IRGM/Irgm1 recombinant protein (Position: E50-K333).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-IRGM/Irgm1 Antibody Picoband® (ABIN7601903). Tested in ELISA, WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	IRGM
Alternative Name:	Irgm1 (IRGM Products)
Background:	Synonyms: NADH-ubiquinone oxidoreductase chain 2, NADH dehydrogenase subunit 2, Mtnd2, mt-Nd2, Nd2 Tissue Specificity: Ubiquitously expressed. Background: 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.
Molecular Weight:	45 kDa
Gene ID:	15944
UniProt:	Q60766

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse ELISA, 0.1-0.5 µg/mL, - 1. Amre, D. K., Mack, D. R., Morgan, K., Krupoves, A., Costea, I., Lambrette, P., Grimard, G., Dong, J., Feguery, H., Bucionis, V., Deslandres, C., Levy, E., Seidman, E. G. Autophagy gene ATG16L1 but not IRGM is associated with Crohn's disease in Canadian children. Inflamm. Bowel Dis. 15: 501-507, 2009. 2. Bekpen, C., Hunn, J. P., Rohde, C., Parvanova, I., Guethlein, L., Dunn, D. M., Glowalla, E., Leptin, M., Howard, J. C. The interferon-inducible p47 (IRG) GTPases in vertebrates: Loss of the cell autonomous resistance mechanism in the human lineage. Genome Biol. 6: R92, 2005. Note: Electronic Article. 3. Brest, P., Lapaquette, P., Souidi, M., Lebrigand, K., Cesaro, A., Vouret-Craviari, V., Mari, B., Barbry, P., Mosnier, J.-F., Hebuterne, X., Harel-Bellan, A., Mograbi, B., Darfeuille-Michaud, A., Hofman, P. A synonymous variant in IRGM alters a binding site for miR-196 and causes deregulation of IRGM-dependent xenophagy in Crohn's disease. Nature Genet. 43: 242-245, 2011.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.