

Datasheet for ABIN500068
anti-IRGM antibody (N-Term)



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1 Image

Overview

Quantity:	0.1 mg
Target:	IRGM
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRGM antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	IRGM antibody was raised against a 17 amino acid peptide near the amino terminus of the human IRGM.
Isotype:	IgG
Specificity:	This antibody detects IRGM at N-term.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	IRGM
Alternative Name:	IRGM / LRG-47 (IRGM Products)

Target Details

Background: Autophagy, the process of bulk degradation of cellular proteins through an autophagosomal-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components. Two of the strongest hits implicate genes IRGM and ATG16L1, which encode proteins thought to be critical to the autophagy pathway and being significantly associated with Crohn's disease. In mouse, IRGM belongs to a family of gamma-interferon-induced GTP-binding proteins of approximately 48 kDa. Murine IRGM induces autophagy and generates large autolysosomal organelles as a mechanism for the elimination of intracellular Mycobacterium tuberculosis. Human IRGM is also involved in autophagy and plays a role in the control of intracellular pathogens and in the reduction of intracellular bacillary load. Synonyms: IFI1, IRGM1, Immunity-related GTPase family M protein, Immunity-related GTPase family M protein 1, Interferon-inducible protein 1, LRG47

Gene ID: 345611

UniProt: [F8VPC9](#)

Application Details

Application Notes: ELISA. Western blot: 1 - 2 µg/mL.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS containing 0.02 % sodium azide

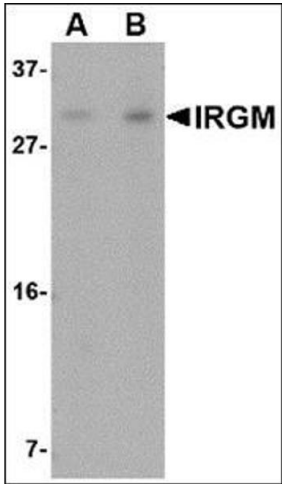
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Western Blotting

Image 1. Western blot analysis of IRGM in Rat brain lysate with this product at (A) 1 and (B) 2 µg/ml.