

Rabbit anti-Human IRGQ Polyclonal Antibody | anti-IRGQ antibody

Anti-IRGQ Antibody Picoband

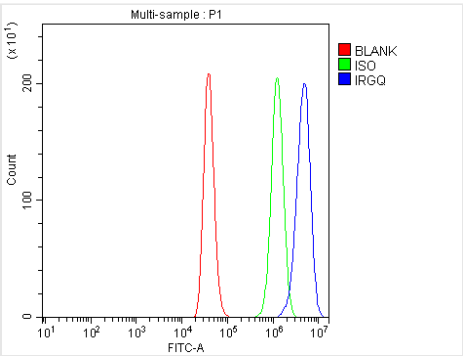
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127910	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

IRGQ; Polyclonal Antibody; Anti-IRGQ Antibody Picoband; anti-IRGQ antibody

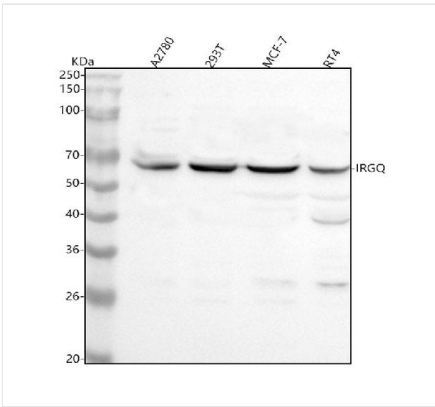
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-IRGQ antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human IRGQ recombinant protein (Position: D7-Q623). Human IRGQ shares 78.2% amino acid (aa) sequence identity with mouse IRGQ.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEL cells using anti-IRGQ antibody (AAA127910).Overlay histogram showing HEL cells stained with AAA127910 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IRGQ Antibody (AAA127910, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of IRGQ using anti-IRGQ antibody (AAA127910).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human A2780 whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human RT4 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IRGQ antigen affinity purified polyclonal antibody (#AAA127910) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for IRGQ at approximately 68 kDa. The expected band size for IRGQ is at 63 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-IRGQ antibody	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.
Product Categories/Family for anti-IRGQ antibody	Primary Antibodies
References	1. Bekpen, C., Hunn, J. P., Rohde, C., Parvanova, I., Guethlein, L., Dunn, D. M., ... & Howard, J. C. (2005). The interferon-inducible p47 (IRG) GTPases in vertebrates: loss of the cell autonomous resistance mechanism in the human lineage. Genome biology, 6, 1-18.2. Maekawa, M., Hiyoshi, H., Nakayama, J., Kido, K., Sawasaki, T., Semba, K., ... & Higashiyama, S. (2019). Cullin-3/KCTD10 complex is essential for K27-polyubiquitination of EIF3D in human hepatocellular carcinoma HepG2 cells. Biochemical and Biophysical Research Communications, 516(4), 1116-1122.3. Chino, H., Hatta, T., Natsume, T., & Mizushima, N. (2019). Intrinsically disordered protein TEX264 mediates ER-phagy. Molecular cell, 74(5), 909-921.

NCBI AND UNIPROT INFORMATION

NCBI GI #	219519118
NCBI GeneID	126298
UniProt Accession #	Q8WZA9; B2RNP3
Molecular Weight	62,717 Da
NCBI Official Full Name	IRGQ protein
NCBI Official Synonym Full Names	immunity-related GTPase family, Q
NCBI Official Symbol	IRGQ
NCBI Official Synonym Symbols	IRGQ1; FKSG27

NCBI Protein Information	immunity-related GTPase family Q protein; immunity-related GTPase family, Q1
UniProt Protein Name	Immunity-related GTPase family Q protein
UniProt Gene Name	IRGQ
UniProt Synonym Gene Names	IRGQ1
UniProt Entry Name	IRGQ_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/irgq-antibody-flow-cytometry-western-blot-elisa/127910>