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IRGQ Rabbit pAb

Catalog # AP98738

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8WZA9
Other Accession	Q8WZA9
Reactivity	Human
Predicted	Rat, Pig, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62717
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IRGQ
Epitope Specificity	501-600/623
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the TRAFAC class dynamin-like GTPase superfamily. IRG family. {ECO:0000305}. Contains 1 IRG-type G (guanine nucleotide-binding) domain. {ECO:0000305}.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The function of this gene is not yet known.

Additional Information

Gene ID	126298
Other Names	FKSG27; IRGQ1; IRGQ_HUMAN; IRGQ; immunity related GTPase Q; immunity-related GTPase family, Q1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	IRGQ {ECO:0000303|PubMed:39481378, ECO:0000312|HGNC:HGNC:24868}
Function	Autophagy receptor that specifically promotes clearance of misfolded MHC class I molecules by targeting them to the lysosome for degradation (PubMed:39481378). Acts as a molecular adapter that specifically recognizes

and binds (1) misfolded MHC class I molecules following their ubiquitination, as well as (2) autophagy-related proteins, promoting the recruitment of misfolded MHC class I molecules to autophagy machinery for degradation (PubMed:39481378). Degradation of misfolded MHC class I molecules is essential to prevent accumulation of defective MHC class I complexes at the surface of CD8(+) T-cells and prevent a stronger T-cell-mediated response (PubMed:39481378). In contrast to other members of the family, does not show GTPase activity (PubMed:39481378).

Cellular Location Lysosome. Cytoplasmic vesicle, autophagosome

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.