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MPEG1 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13656

Product Information

Application	WB
Primary Accession	Q2M385
Other Accession	NM_001039396, NP_001034485
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78587

Additional Information

Gene ID	219972
Alias Symbol	MGC132657, MGC138435, MPG1, MPS1, Mpg-1
Other Names	Macrophage-expressed gene 1 protein, Macrophage gene 1 protein, Mpg-1, MPEG1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-MPEG1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	MPEG1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MPEG1 {ECO:0000303|PubMed:28422754, ECO:0000312|HGNC:HGNC:29619}
Function	Pore-forming protein involved in both innate and adaptive immunity (PubMed:23753625, PubMed:26402460, PubMed:28422754, PubMed:30609079, PubMed:31537793, PubMed:33224153). Plays a central role in antigen cross-presentation in dendritic cells by forming a pore in antigen-containing compartments, thereby promoting delivery of antigens for cross-presentation (By similarity). Also involved in innate immune response following bacterial infection; shows antibacterial activity against a wide spectrum of Gram-positive, Gram- negative and acid-fast bacteria (PubMed:23753625, PubMed:26402460, PubMed:28422754,

PubMed:30609079, PubMed:33224153). Reduces the viability of the intracytosolic pathogen L.monocytogenes by inhibiting acidification of the phagocytic vacuole of host cells which restricts bacterial translocation from the vacuole to the cytosol (By similarity). Required for the antibacterial activity of reactive oxygen species and nitric oxide (By similarity).

Cellular Location

[Isoform 1]: Cytoplasmic vesicle membrane; Multi-pass membrane protein. Note=Bacterial infection induces translocation of the cytoplasmic vesicles to bacterium-containing phagocytic vesicles and fusing of the vesicles [Isoform 2]: Secreted

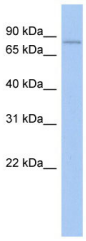
Tissue Location

Expressed constitutively in a variety of cell types including macrophages, natural killer cells, neutrophils, keratinocytes and monocytes (PubMed:26402460, PubMed:28705375, PubMed:7888681). In skin, expressed in both hematopoietic and non-hematopoietic cells with expression detected in a variety of cell types including keratinocytes, fibroblasts and endothelial cells (PubMed:30609079)

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Spilsbury K.,et al.Blood 85:1620-1629(1995).

Images



WB Suggested Anti-MPEG1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Human Spleen

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