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MPEG1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI13656

Specification

MPEG1 antibody - middle region - Product Information

Application	**WB**
Primary Accession	Q2M385
Other Accession	NM_001039396, NP_001034485
Reactivity	**Human**
Predicted	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**78kDa KDa**

MPEG1 antibody - middle region - 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.

MPEG1 antibody - middle region - 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

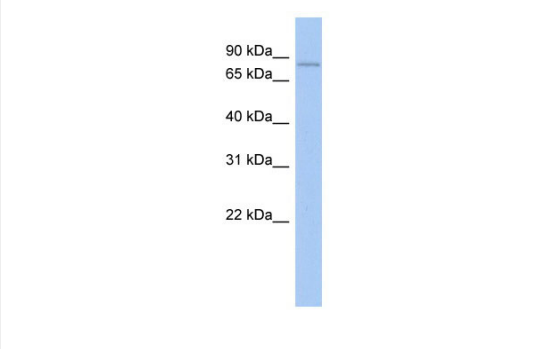
Tissue Location
Expressed constitutively in a variety of cell types including macrophages, natural killer cells, neutrophils, keratinocytes and monocytes (PubMed:26402460, PubMed:28705375, PubMed:7888681). In skin, expressed in both hematopoietic and non-hematopoietic cells with expression detected in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

MPEG1 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MPEG1 antibody - middle region - Images



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

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Positive Control: Human Spleen

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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).