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MPEG1/Macrophage Specific Gene Rabbit pAb

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Catalog # AP57176

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q2M385
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78587
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MPEG1/Macrophage Specific Gene
Epitope Specificity	101-200/716
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	219972
Other Names	Macrophage-expressed gene 1 protein, Macrophage gene 1 protein, Mpg-1, Perforin-2, P-2, Macrophage-expressed gene 1 protein, processed form, MPEG1 {ECO:0000303|PubMed:28422754, ECO:0000312|HGNC:HGNC:29619}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	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)

Background

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