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MIA2 Rabbit pAb

Catalog # AP99751

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96PC5
Other Accession	Q96PC5
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	159836
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MIA2
Epitope Specificity	451-542/542
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 MIA/OTOR family.Contains 1 SH3 domain.
DISEASE	Note=Autoantibodies against CTAGE5 are present in several cancer types, including benign meningioma and cutaneous T-cell lymphoma (CTCL).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cutaneous T cell lymphomas (CTCL) represent a group of malignancies that originate from CD4-T lymphocytes and manifest on the skin. CTCL is a general term for several neoplasms including mycosis fungoides, T cell leukemia/ lymphoma and pagetoid reticulosis, all of which are very difficult to treat in the advanced stages. CTAGE2 (cutaneous T cell lymphoma associated-antigen 2) is a member of the cancer/testis antigen family of proteins (CTAGE) that, under normal conditions, are found primarily in the testis with little or no expression in other parts of the body. Another member of the CTAG family, namely CTAGE5 (also known as MEA11, MEA6, MGEA11 or MGEA6), is a tumor associated antigen that is found in tumors of various origins, including cutaneous T cell lymphomas. Both CTAGE2 and CTAGE5 are expressed as multiple isoforms due to alternative splicing events.

Additional Information

Gene ID	4253
Other Names	CTAGE5; MIA2_HUMAN; MIA2; MIA protein 2; CTAGE family member 5 ER export factor; Cutaneous T-cell lymphoma-associated antigen 5; Meningioma-expressed antigen 6/11; MEA11; MEA6; MGEA11; MGEA6; MIA SH3 domain ER export factor 2; CTAGE family member 5, ER export factor; meningioma expressed antigen 6 (coiled-coil proline-rich); CTAGE family member 5; melanoma inhibitory activity 2; TANGO1-like
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500

	0-10000
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	MIA2 (HGNC:18432)
Function	Plays a role in the transport of cargos that are too large to fit into COPII-coated vesicles and require specific mechanisms to be incorporated into membrane-bound carriers and exported from the endoplasmic reticulum (PubMed:21525241, PubMed:25202031, PubMed:27138255, PubMed:27170179). Plays a role in the secretion of lipoproteins, pre-chylomicrons and pre-VLDLs, by participating in their export from the endoplasmic reticulum (PubMed:27138255). Thereby, may play a role in cholesterol and triglyceride homeostasis (By similarity). Required for collagen VII (COL7A1) secretion by loading COL7A1 into transport carriers and recruiting PREB/SEC12 at the endoplasmic reticulum exit sites (PubMed:21525241, PubMed:25202031, PubMed:27170179).
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein. Note=Localizes to endoplasmic reticulum exit sites (ERES), also known as transitional endoplasmic reticulum (tER).
Tissue Location	Highly expressed in liver and weakly in testis. Expression was higher in patients with severe fibrosis or inflammation and chronic hepatitis (PubMed:12586826). Isoform 1 is specifically expressed in lung, testis, small intestine, colon, pancreas, kidney, liver and prostate (PubMed:27138255). Isoform 8 is expressed only in testis (at the protein level). Isoform 8 (at protein level) and isoform 9 are expressed in cutaneous T-cell lymphoma (CTCL) cell lines, colorectal carcinomas, breast carcinomas and melanoma. Isoform 9, but not isoform 5A, is expressed in head and neck squamous cell carcinoma (PubMed:12839582).

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