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MAGEA3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6165a

Product Information

Application	WB, FC, IHC-P, E
Primary Accession	P43357
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34747
Antigen Region	283-314

Additional Information

Gene ID	4102
Other Names	Melanoma-associated antigen 3, Antigen MZ2-D, Cancer/testis antigen 13, CT13, MAGE-3 antigen, MAGEA3, MAGE3
Target/Specificity	This MAGEA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 283-314 amino acids from the C-terminal region of human MAGEA3.
Dilution	WB~~1:1000 FC~~1:10~50 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MAGEA3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MAGEA3 {ECO:0000303|PubMed:29779948, ECO:0000312|HGNC:HGNC:6801}
Function	Activator of ubiquitin ligase activity of RING-type zinc finger-containing E3 ubiquitin-protein ligases that acts as a repressor of autophagy (PubMed:20864041, PubMed:31267705). May enhance ubiquitin ligase activity

	of TRIM28 and stimulate p53/TP53 ubiquitination by TRIM28. Proposed to act through recruitment and/or stabilization of the Ubl-conjugating enzyme (E2) at the E3:substrate complex (PubMed:17942928, PubMed:20864041). May play a role in embryonal development and tumor transformation or aspects of tumor progression (PubMed:17942928, PubMed:20864041). In vitro promotes cell viability in melanoma cell lines (PubMed:17942928). Antigen recognized on a melanoma by autologous cytolytic T-lymphocytes (PubMed:8113684).
Tissue Location	Expressed in many tumors of several types, such as melanoma, head and neck squamous cell carcinoma, lung carcinoma and breast carcinoma, but not in normal tissues except for testes and placenta. Never expressed in kidney tumors, Leukemias and lymphomas

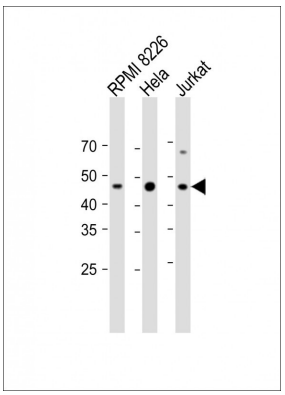
Background

MAGEA3 is a member of the MAGEA gene family. The members of this family have their entire coding sequences located in the last exon, and the encoded proteins show 50 to 80% sequence identity between each other. The promoters and first exons of the MAGEA genes show considerable variability, suggesting that the existence of this gene family enables the same function to be expressed under different transcriptional controls. The MAGEA genes are expressed at a high level in a number of tumors of various histologic types, and are silent in normal tissues with the exception of testis and placenta. The MAGEA genes are clustered on chromosome Xq28. They may be implicated in some hereditary disorders, such as dyskeratosis congenita.

References

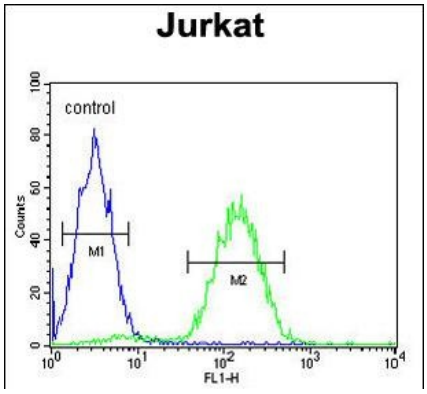
Guo, J., et al., Exp. Mol. Pathol. 74(2):140-147 (2003). Consogno, G., et al., Blood 101(3):1038-1044 (2003). Rogner, U.C., et al., Genomics 29(3):725-731 (1995). Gaugler, B., et al., J. Exp. Med. 179(3):921-930 (1994). van der Bruggen, P., et al., Science 254(5038):1643-1647 (1991).

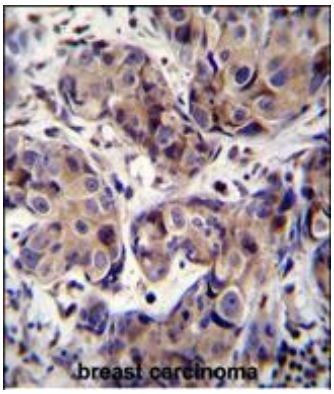
Images



All lanes: Anti-MAGEA3 Antibody (C-term) at 1:2000 dilution Lane 1: RPMI 8226 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 45 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

MAGEA3 Antibody (C-term) (Cat. #AP6165a) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.





MAGEA3 Antibody (C-term) (Cat. #AP6165a)immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MAGEA3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- MAGE-C1/CT7 is the dominant cancer-testis antigen targeted by humoral immune responses in patients with multiple myeloma.
- The cancer/testis antigen melanoma-associated antigen-A3/A6 is a novel target of fibroblast growth factor receptor 2-IIIb through histone H3 modifications in thyroid cancer.
- MAD-CT-2 identified as a novel melanoma cancer-testis antigen using phage immunoblot analysis.
- Antitumor effect of recombinant expressing MAGEA3 and SSX2 fusion proteins.

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