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RAET1E Antibody(Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19552c

Product Information

Application	WB, E
Primary Accession	Q8TD07
Other Accession	NP_631904.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40835
Calculated MW	30122
Antigen Region	150-179

Additional Information

Gene ID	135250
Other Names	NKG2D ligand 4, N2DL-4, NKG2DL4, Lymphocyte effector toxicity activation ligand, RAE-1-like transcript 4, RL-4, Retinoic acid early transcript 1E, RAET1E, LETAL, N2DL4, ULBP4
Target/Specificity	This RAET1E antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 150-179 amino acids from the Central region of human RAET1E.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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	RAET1E Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAET1E {ECO:0000303|PubMed:11827464, ECO:0000312|HGNC:HGNC:16793}
Function	Binds and activates the KLRK1/NKG2D receptor, mediating natural killer cell

	cytotoxicity.
Cellular Location	Membrane; Single- pass type I membrane protein
Tissue Location	Predominantly expressed in the skin, but also expressed in testis and trachea. Up-regulated in tumor cells of different origins. Expression progressively decreased after treatment of tumor cells with retinoic acid.

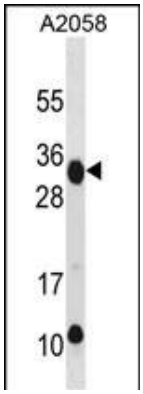
Background

Members of the RAET1 family, such as RAET1E, are major histocompatibility complex (MHC) class I-related genes located within a 180-kb cluster on chromosome 6q24.2-q25.3. RAET1 proteins contain MHC class I-like alpha-1 and alpha-2 domains. RAET1E and RAET1G (MIM 609244) differ from the other RAET1 proteins (e.g., RAET1I, or ULBP1; MIM 605697) in that they have type I membrane-spanning sequences at their C termini rather than glycosylphosphatidylinositol anchor sequences. RAET1E is a ligand for NKG2D (KLRK1; MIM 611817), which is expressed on the surface of several types of immune cells and is involved in innate and adaptive immune responses (summary by Radosavljevic et al. (2002) [PubMed 11827464] and Cao et al. (2007) [PubMed 17470428]).

References

McGilvray, R.W., et al. Int. J. Cancer 127(6):1412-1420(2010)
Antoun, A., et al. Hum. Immunol. 71(6):610-620(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Romphruk, A.V., et al. Immunogenetics 61(9):611-617(2009)
Kong, Y., et al. Blood 114(2):310-317(2009)

Images



RAET1E Antibody (Center) (Cat. #AP19552c) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the RAET1E antibody detected the RAET1E protein (arrow).