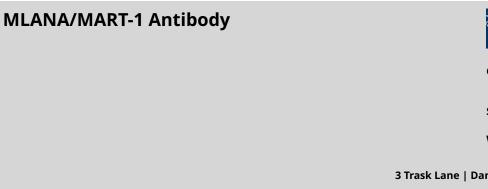
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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 19	Source/Isotype: Rabbit	UniProt ID: #Q16655	Entrez-Gene Id: 2315		
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity MLANA/MART-1 Antibody recognizes endogenous levels of total MLA					MLANA/MART-1 pro	tein.		
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residues near the carboxy terminus of human MLANA protein. Antibodies are purified by protein A peptide affinity chromatography.						
Background		MLANA, also known as MART-1, is a member of a melanocyte lineage-specific family of proteins. It is expressed in melanocytes, retinal pigment epithelium, and melanoma cells. Its function is not entirely understood, but it is believed to be involved in the stability of GPR143, as well as the stability, trafficking, and processing of PMEL; both proteins are involved in the formation of stage II melanosomes (1). In melanosomes, MLANA is specifically located in the trans-Golgi network, however conformational changes to the protein or a sub-population of the protein causes it to localize back to the ER and small endosomal vesicles (2). In the context of melanoma cells, the conformational change is thought to be caused by aberrant exposure of epitopes, which are recognized by cytolytic T-lymphocytes (3). MLANA may be useful as a marker of metastatic melanoma (4). MHC-II restricted phospho-MLANA peptides, which are recognized by CD4 cells, are being investigated as potential candidates for cancer immunotherapy (5).						
Background R	eferences	1. Hoashi, T. et al. (2005) <i>J Biol Chem</i> 280, 14006-16. 2. De Mazière, A.M. et al. (2002) <i>Traffic</i> 3, 678-93. 3. Rimoldi, D. et al. (2001) <i>J Biol Chem</i> 276, 43189-96. 4. Wandler, A. et al. (2016) <i>J Cutan Pathol</i> 43, 956-962. 5. Depontieu, F.R. et al. (2009) <i>Proc Natl Acad Sci U S A</i> 106, 12073-8.						
Species Reacti	vity	Species reactivity is det	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human						
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