

MLANA/MART-1 Antibody



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 19	Source: Rabbit	UniProt ID: #Q16655	Entrez-Gene Id 2315	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting			1:1000		
	Imr	munoprecipitation			1:200		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	rity MLA	MLANA/MART-1 Antibody recognizes endogenous levels of total MLANA/MART-1 protein.					
Source / Purification	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MLANA protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	exprund and mela to th vesi aber as a	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 Referer		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.					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot 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.

3. Rimoldi, D. et al. (2001) J Biol Chem 276, 43189-96. 4. Wandler, A. et al. (2016) J Cutan Pathol 43, 956-962.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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5. Depontieu, F.R. et al. (2009) Proc Natl Acad Sci U S A 106, 12073-8.

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