Aeonian Biotech
Your choice for selective antibodies

TMA-validated antibodies

Cat nr AE00375 **Product Datasheet**

Mouse Recombinant Antibody, AE900M to:

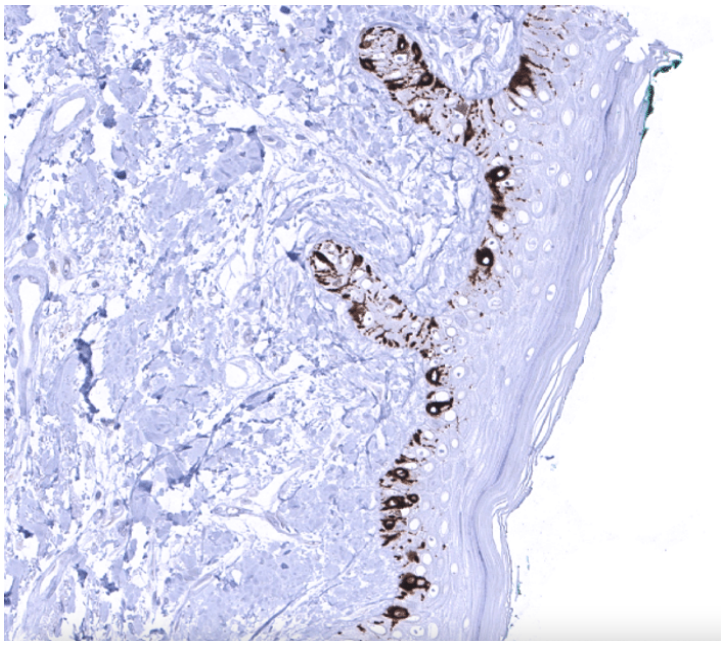
Melan A

Antigen LB39-AA; Antigen SK29-AA; Melanoma antigen recognized by T-cells 1; Melan-A; MelanA; Melan A; MART1; MART-1; MLANA

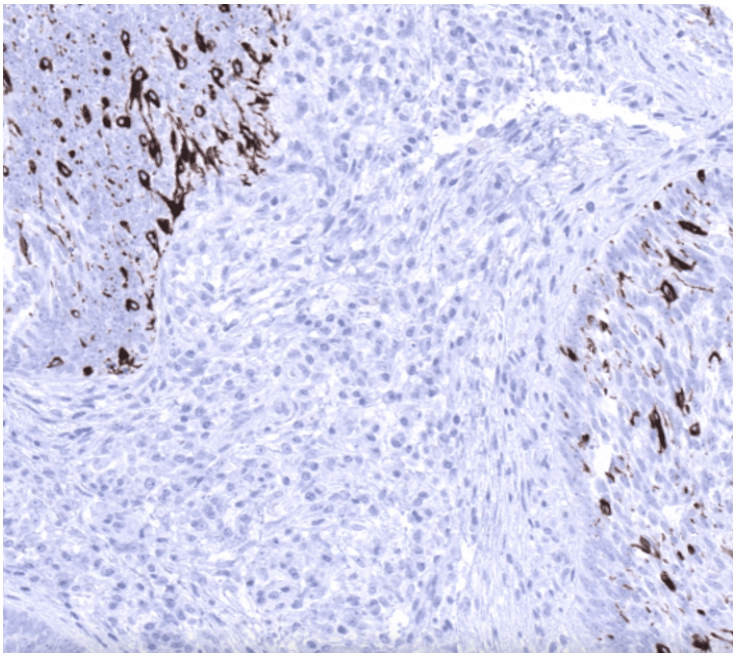
Cellular localization	ER, Golgi, melanosome
Official Symbol (Gene)	MLANA
GeneID	2315
SwissProt	Q16655
Confirmed Applications	IHC
Positive controls	Skin, melanoma
Aeonian Rating©	90
Purification	By Protein A from bioreactor concentrate
Formulation	☐ 0.2 mg IgG/ml in PBS with 0.5% BSA & 0.05% azide. ☐ 0.2 mg IgG/ml in PBS with 0.05% azide, without BSA.
Amount	☐ 200ug ☐ 1000ug
Isotype	Mouse IgG2a, kappa
Confirmed species reactivity	Human
Immunogen	Recombinant full length human Melan A protein
Epitope	Unknown
Storage instructions	Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.
Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
Warranty	This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.
Product performance	see next pages

Product data:

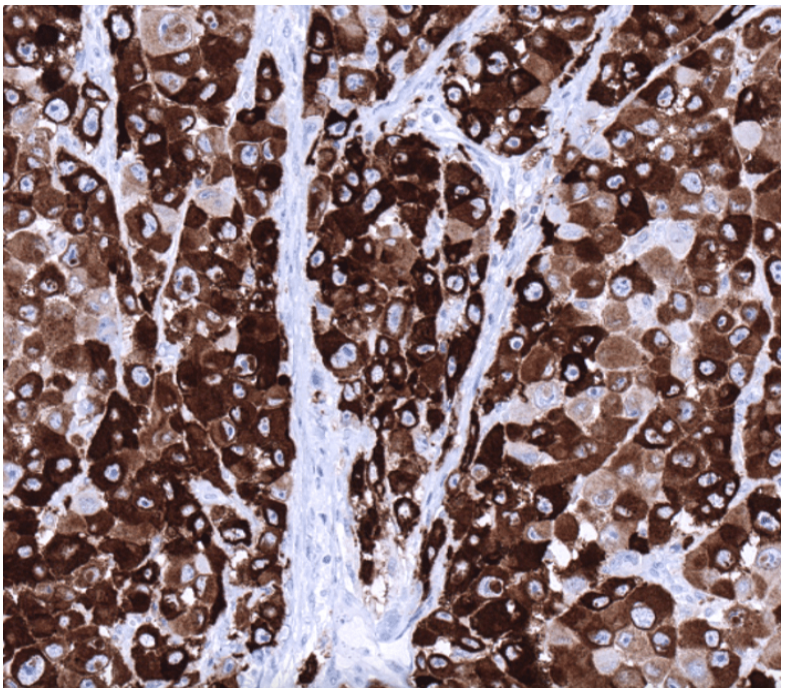
Immunohistochemistry (IHC):
This product was successfully used to stain melanocytes in healthy skin, non-neoplastic melanocytes in Melan A-negative basal cell carcinoma, and tumour cells in melanoma sections. Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human skin stained with Melan A Mouse Recombinant Antibody AE00375 at 1-2 µg/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.



Formaldehyde-fixed, paraffin-embedded human basal cell carcinoma stained with Melan A Mouse Recombinant Antibody AE00375 at 1-2 µg/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.



Formaldehyde-fixed, paraffin-embedded human melanoma stained with Melan A Mouse Recombinant Antibody AE00375 at 1-2 µg/ml for 60 minutes at 37°C. Epitope retrieval: Autoclave at 121°C, pH7.8 for 5 min followed by 20 min cooling. DAB staining by HRP polymer.

Tissue Microarray Validation:

Normal tissues

Strong positive	Weak to moderate	No staining at all
skin		adipose
		adrenal gland
		aorta media
		appendix mucosa
		appendix muscular wall
		bone marrow
		breast
		bronchus mucosa
		cerebellum
		cerebrum
		colon mucosa
		colon muscular wall
		duodenum Brunner gland
		duodenum mucosa
		ectocervix
		endocervix
		endometrium
		epididymis
		esophagus squamous epithelium
		fallopian tube
		gallbladder
		heart muscle
		ileum mucosa

		kidney liver lung myometrium ovarian stroma pancreas parathyroid gland parotid gland pituitary gland placenta pregnant uterus prostate rectum mucosa seminal vesicle sinus paranasalis skeletal muscle spleen stomach testis thymus thyroid gland tonsil urinary bladder muscular wall urothelium

Cancer tissues

Strong positive	**Weak to moderate**	**No staining at all**
melanoma		adrenocortical adenoma adrenocortical carcinoma basal cell carcinoma clear cell renal cell carcinoma colorectal adenocarcinoma endometrioid ovarian carcinoma high-grade serous carcinoma pancreas ductal adenocarcinoma pharynx squamous cell carcinoma prostate adenocarcinoma renal oncocytoma skin squamous cell carcinoma urothelial carcinoma