ARG55978
anti-Melanoma gp100 antibody [NKI-beteb]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [NKI-beteb] recognizes Melanoma gp100
Tested Reactivity	Hu
Species Does Not React With	Rat
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	NKI-beteb
Isotype	IgG2b, kappa
Target Name	Melanoma gp100
Species	Human
Immunogen	Membranes from a Human melanoma metastasis.
Conjugation	Un-conjugated
Alternate Names	Premelanosome protein; SILV; ME20; Melanocyte protein Pmel 17; ME20-M; Secreted melanoma-associated ME20 antigen; 95 kDa melanocyte-specific secreted glycoprotein; Silver locus protein homolog; ME20S; D12S53E; SIL; P1; Melanocyte protein PMEL; PMEL17; ME20-S; Melanoma-associated ME20 antigen; gp100; ME20M; P100; SI; P26; Melanocytes lineage-specific antigen GP100

Application Instructions

Application table

Application	Dilution
IHC-P	1 - 2 µg/ml

Application Note: IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Citrate buffer (pH 6.0) for 10-20 min, followed by cooling at RT for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

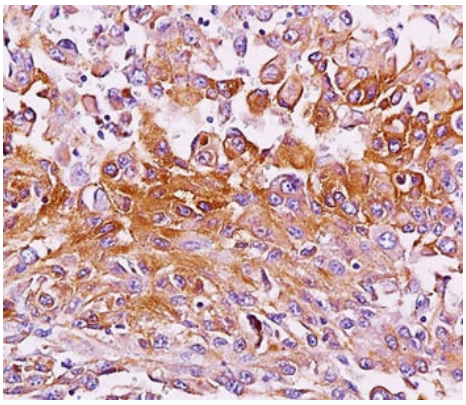
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

	and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 6490 Human Swiss-port # P40967 Human
Gene Symbol	PMEL
Gene Full Name	premelanosome protein
Background	This gene encodes a melanocyte-specific type I transmembrane glycoprotein. The encoded protein is enriched in melanosomes, which are the melanin-producing organelles in melanocytes, and plays an essential role in the structural organization of premelanosomes. This protein is involved in generating internal matrix fibers that define the transition from Stage I to Stage II melanosomes. This protein undergoes a complex pattern of prosttranslational processing and modification that is essential to the proper functioning of the protein. A secreted form of this protein that is released by proteolytic ectodomain shedding may be used as a melanoma-specific serum marker. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2011]
Function	Plays a central role in the biogenesis of melanosomes. Involved in the maturation of melanosomes from stage I to II. The transition from stage I melanosomes to stage II melanosomes involves an elongation of the vesicle, and the appearance within of distinct fibrillar structures. Release of the soluble form, ME20-S, could protect tumor cells from antibody mediated immunity. [UniProt]
Calculated Mw	70 kDa
PTM	A small amount of P1/P100 (major form) undergoes glycosylation to yield P2/P120 (minor form). P2 is cleaved by a furin-like proprotein convertase (PC) in a pH-dependent manner in a post-Golgi, prelysosomal compartment into two disulfide-linked subunits: a large lumenal subunit, M-alpha/ME20-S, and an integral membrane subunit, M-beta. Despite cleavage, only a small fraction of M-alpha is secreted, whereas most M-alpha and M-beta remain associated with each other intracellularly. M-alpha is further processed to M-alpha N and M-alpha C. M-alpha C further undergoes processing to yield M-alpha C1 and M-alpha C3 (M-alpha C2 in the case of PMEL17-is or PMEL17-ls). Formation of intralumenal fibrils in the melanosomes requires the formation of M-alpha that becomes incorporated into the fibrils. Stage II melanosomes harbor only Golgi-modified Pmel17 fragments that are derived from M-alpha and that bear sialylated O-linked oligosaccharides. N-glycosylated. O-glycosylated; contains sialic acid.
Cellular Localization	Cytoplasmic

Images



ARG55978 anti-Melanoma gp100 antibody [NKI-beteb] IHC-P image

Immunohistochemistry: Melanoma tissue stained with ARG55978 anti-Melanoma gp100 antibody [NKI-beteb].