PMEL monoclonal antibody

Catalog: MB66143 Host: Mouse Reactivity: Human

BackGround:

PMEL/Melanoma gp100 is a type 1 transmembrane glycoprotein primarily expressed in pigment cells of the skin and eye, and overexpressed in more than 75% of human melanomas . It is involved in the transformation of melanosomes from stage I to stage II, forming the fibrillar matrix necessary for pigmentation of the cell . The synthesis and modification of PMEL/Melanoma gp100 is done in the endoplasmic reticulum (ER) and transferred to the Golgi complex where it is cleaved into two disulfide-linked subunits, Mα and Mβ. The cleavage of the large luminal Mα fragment is required for the formation of the fibrils that are the structure for melanin synthesis . The ability for PMEL/Melanoma gp100 to form functional amyloids makes it an interesting protein to study when looking at pathological amyloids in neurodegenerative diseases, such as Alzheimer's disease and Parkinson's disease . Due to melanocyte-restricted expression of this protein, PMEL/Melanoma gp100 is considered a tumor-associated antigen that can be targeted by immunotherapeutic approaches to treat melanoma .

Product:

Mouse IgG2b. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.

Molecular Weight:

~ 70 kDa

Swiss-Prot:

P40967

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

IHC (1/100 - 1/300)

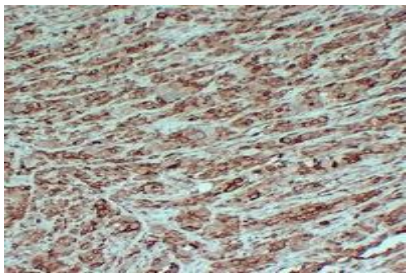
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of PMEL protein.

DATA:



Immunohistochemical analysis of PMEL staining in human malignant melanoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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