

Mouse Anti-Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) [SPM611]: MC0103

Intended Use: For Research Use Only

Description: It reacts with a 75kDa melanocyte-specific gene product, identified as Tyrosinase-related protein-1 (TYRP-1). It is involved in melanin synthesis. TYRP1 is present on the melanosomal membranes of melanoma, normal melanocytes and nevi. Recent evidence suggests that TYRP-1 is involved in maintaining stability of tyrosinase protein and modulating its catalytic activity. TYRP-1 is also involved in maintenance of melanosome ultrastructure and affects melanocyte proliferation and cell death.

Specifications

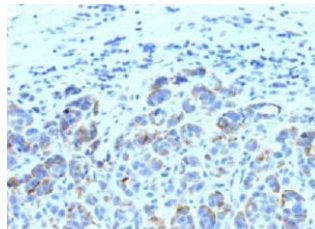
Clone: SPM611
Source: Mouse
Isotype: IgG2a/k
Reactivity: Human, mouse
Localization: Cytoplasm
Formulation: Protein A/G purified antibody from bioreactor concentrate. Prepared in 10mM PBS with 0.2% BSA and < 0.09% sodium azide (NaN₃)
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications: IHC, Flow Cyt, ICC/IF
Package:

Description	Catalog No.	Size
Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Concentrated	MC0103	1 ml

IHC Procedure*

Positive Control Tissue: SK-MEL-23, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma
Concentrated Dilution: 25-100
Pretreatment: EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human melanoma stained with anti-TYRP-1 using DAB

References

1. Lentivector immunization stimulates potent CD8 T cell responses against melanoma self-antigen tyrosinase-related protein 1 and generates antitumor immunity in mice. Liu Y, et al. J Immunol. May 15;182(10):5960-9, 2009.
2. Improved tumor immunity using anti-tyrosinase related protein-1 monoclonal antibody combined with DNA vaccines in murine melanoma. Saenger YM, et al. Cancer Res. Dec 1;68(23):9884-91, 2008.
3. PDZ domain protein GIPC interacts with the cytoplasmic tail of melanosomal membrane protein gp75 (tyrosinase-related protein-1). Liu TF, et al. J Biol Chem. Sep 21;276(38):35768-77, 2001.
4. High-molecular-weight forms of tyrosinase and the tyrosinase-related proteins: evidence for a melanogenic complex. Orlow, S.J., et al. J. Invest. Dermatol. 103: 196-201, 1994.