

## Product datasheet for **AM33299PU-T**

### TRP1 (TYRP1) Mouse Monoclonal Antibody [Clone ID: TA99]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	TA99
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	<b>ELISA:</b> Use BSA free Antibody for coating. <b>Flow Cytometry:</b> 0.5-1 µg/million cells. <b>Immunofluorescence:</b> 1-2 µg/ml. <b>Western Blotting</b> (Not tested): 0.5-1 µg/ml. <b>Immunoprecipitation:</b> 1-2 µg/500 µg protein lysate. <b>Immunohistochemistry on Frozen Sections:</b> 0.5-1 µg/ml for 30 minutes at RT. <b>Positive Control:</b> SK-MEL-23, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	SK-MEL-23 cells.
Specificity:	It reacts with a 75kDa melanocyte-specific gene product, identified as Tyrosinase-related protein-1 (TRP-1). <b>Cellular Localization:</b> Cytoplasmic.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.



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**Predicted Protein Size:** 75 kDa

**Gene Name:** tyrosinase related protein 1

**Database Link:** [Entrez Gene 7306 Human P17643](#)

**Background:** Tyrosinase-related protein-1 (TRP-1) is involved in melanin synthesis. TRP1 is present on the melanosomal membranes of melanoma, normal melanocytes and nevi. Recent evidence suggests that TRP-1 is involved in maintaining stability of tyrosinase protein and modulating its catalytic activity. TRP-1 is also involved in maintenance of melanosome ultrastructure and affects melanocyte proliferation and cell death. Defects in TRP-1 affect pigmentation in melanosomes, and have been shown to cause two diseases dependent on skin colour; rufous oculocutaneous albinism (ROCA) occurs predominantly in southern African blacks and oculocutaneous albinism type III (OCA-III/3) a form of albinism with only moderate reduction of pigment.

**Synonyms:** Tyrosinase-related protein 1, TYRP, TYRRP, TRP-1, TRP1, DHICA oxidase, Catalase B, CAS2