

## 36-3331: Anti-Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Monoclonal Antibody(Clone: TYRP1/3283)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	TYRP1/3283
<b>Application :</b>	ELISA,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	TYRP1
<b>Gene ID :</b>	7306
<b>Uniprot ID :</b>	P17643
<b>Alternative Name :</b>	5, 6 dihydroxyindole 2 carboxylic acid oxidase, 6-dihydroxyindole-2-carboxylic acid oxidase, Associated with iris pigmentation, CAS2, Catalase B (CATB), DHICA oxidase, Glycoprotein75 (GP75), Melanoma antigen gp75
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	A recombinant fragment (around aa 257-377) of human TYRP1 protein (exact sequence is proprietary)

### Description

It reacts with a 75kDa melanocyte-specific gene product, identified as Tyrosinase-related protein-1 (TRP-1). It 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.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

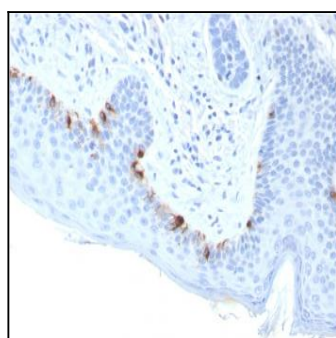


Fig. 1: Formalin-fixed, paraffin-embedded human Skin stained with TYRP1-Monospecific Mouse Monoclonal Antibody (TYRP1/3283).

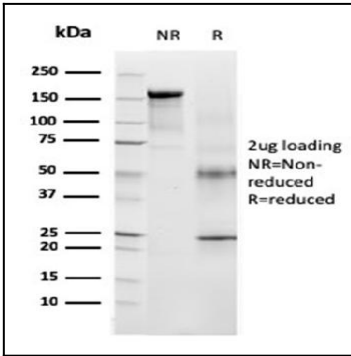


Fig. 2: SDS-PAGE Analysis Purified TYRP1-Monospecific Mouse Monoclonal Antibody (TYRP1/3283). Confirmation of Purity and Integrity of Antibody.

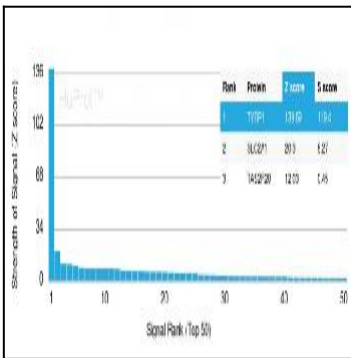


Fig. 3: Analysis of Protein Array containing more than 19,000 full-length human proteins using TYRP1-Monospecific Mouse Monoclonal Antibody (TYRP1/3283) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to be specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.