

## Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody

Mouse Monoclonal Antibody [Clone TYRP1/3283]

| Catalog No       | Format                                        | Size   |
|------------------|-----------------------------------------------|--------|
| 7306-MSM13-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 7306-MSM13-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 7306-MSM13-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

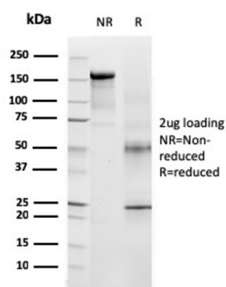
| Applications               | Tested Dillution | Note                                                                                                                                                                              |
|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunohistochemistry (IHC) | 1-2ug/ml         | 30 min 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°C followed by cooling at RT for 20 minutes |

### Product Details

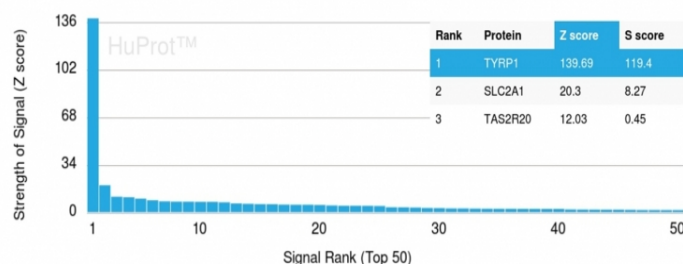
|                        |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| Clone                  | TYRP1/3283                                                                                        |
| Gene Name              | TYRP1                                                                                             |
| Immunogen              | A recombinant fragment (around aa 257-377) of human TYRP1 protein (exact sequence is proprietary) |
| Host                   | Mouse                                                                                             |
| Clonality              | Monoclonal                                                                                        |
| Isotype / Light Chain  | IgG2b / Kappa                                                                                     |
| Mol. Weight of Antigen | 75kDa                                                                                             |
| Cellular Localization  | Melanosome, Melanosome membrane                                                                   |
| Species Reactivity     | Human                                                                                             |
| Positive Control       | SK-MEL-19, SK-MEL-23, SK-MEL-30, SK-MEL-37 cells. Human Skin or Melanoma.                         |

*\*Optimal dilution for a specific application should be determined.*

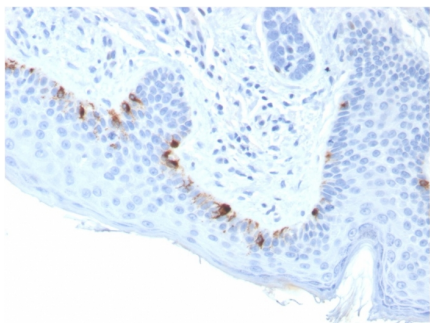
### Product Images for Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody



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



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,  $\sigma$ 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,  $\sigma$ 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.



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

### Specificity & Comments

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.

### Supplied As

200ug/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.

### Storage and Stability

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. No MSDS required.

### Research Areas

Cardiovascular

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.