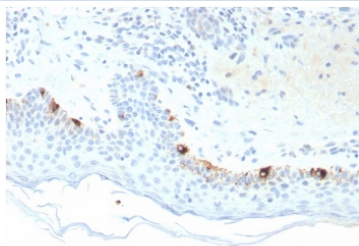


## Tyrosinase-Related Protein-1 Antibody / TRP1 / TYRP1 [clone TYRP1/3281] (V8146)

| Catalog No.    | Formulation  | Size   |
|----------------|--|--------|
| V8146-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8146-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug  |
| V8146SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                             | 100 ug |

### Bulk quote request

|                           |   |
|---------------------------|---|
| <b>Availability</b>       | 1-3 business days   |
| <b>Species Reactivity</b> | Human   |
| <b>Format</b>             | Purified  |
| <b>Clonality</b>          | Monoclonal (mouse origin)   |
| <b>Isotype</b>            | Mouse IgG2b, kappa  |
| <b>Clone Name</b>         | TYRP1/3281  |
| <b>Purity</b>             | Protein G affinity chromatography   |
| <b>UniProt</b>            | P17643  |
| <b>Localization</b>       | Cytoplasmic   |
| <b>Applications</b>       | ELISA (order BSA-free Format For Coating) :<br>Immunohistochemistry (FFPE) : 1-2ug/ml |
| <b>Limitations</b>        | This Tyrosinase-Related Protein-1 antibody is available for research use only.        |

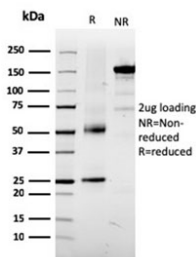


IHC staining of FFPE human skin with Tyrosinase-Related Protein-1 antibody (clone TYRP1/3281). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

#### Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Tyrosinase-Related Protein-1 antibody (clone TYRP1/3281). These results demonstrate the foremost specificity of the TYRP1/3281 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD&#39;s) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD&#39;s) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Tyrosinase-Related Protein-1 antibody (clone TYRP1/3281) as confirmation of integrity and purity.

## 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.

## Application Notes

Optimal dilution of the Tyrosinase-Related Protein-1 antibody should be determined by the researcher.

## Immunogen

A recombinant human partial protein (amino acids 257-377) was used as the immunogen for this TRP1 antibody.

## Storage

Store the Tyrosinase-Related Protein-1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).