# Product Datasheet

## Tyrosinase-Related Protein-1 Antibody / TRP1 / TYRP1 (orb639982)

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| **Catalog Number** | orb639982 |
| **Category** | Antibodies |
| **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. |
| **Clonality** | Monoclonal |
| **Species/Host** | Mouse |
| **Isotype** | Mouse IgG2b, kappa |
| **Conjugation** | Unconjugated |
| **Reactivity** | Human |
| **Buffer/Preservatives** | 0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide |
| **Purification** | Protein G affinity chromatography |
| **Immunogen** | A recombinant human partial protein (amino acids 257-377) was used as the immunogen for this TRP1 antibody. |
| **UniProt ID** | P17643 |
| **Tested applications** | ELISA, IHC-P |

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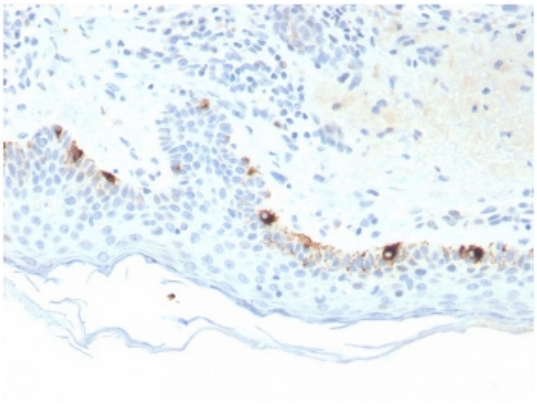
|---|---|
| **Dilution range** | ELISA (order BSA-free format for coating),Immunohistochemistry (FFPE): 1-2ug/ml |
| **Application notes** | Optimal dilution of the Tyrosinase-Related Protein-1 antibody should be determined by the researcher. |
| **Antibody Type** | Primary Antibody |
| **Clone Number** | TYRP1/3281 |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Note** | For research use only |
| **Expiration Date** | 12 months from date of receipt. |



IHC staining of FFPE human skin with Tyrosinase-Related Protein-1 antibody (clone TYRP1/3281). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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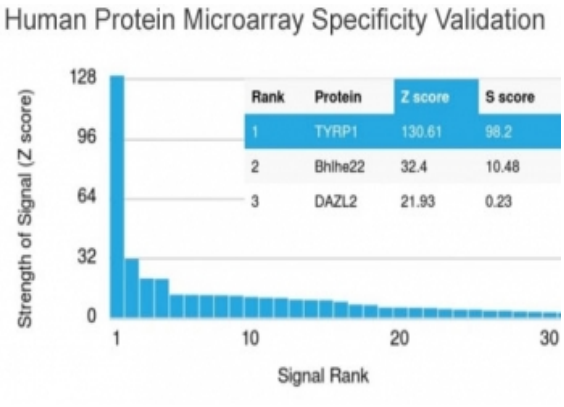
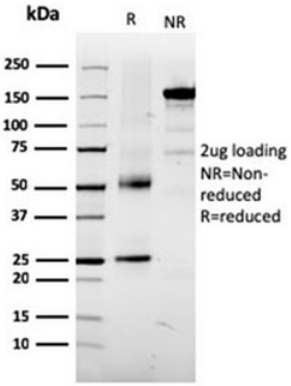



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using Tyrosinase-Related Protein-1 antibody (clone TYRP1/3281). These results demonstrate the foremost specificity of the TYRP1/3281 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (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'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'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.

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