

Product Datasheet

TRP1 / Tyrosinase-Related Protein-1 Antibody (orb606356)

Catalog Number	orb606356
Description	Tyrosinase-Related Protein-1/TYRP1/TRP1 is a melanocyte-specific gene product involved in melanin synthesis. While mouse Tyrp1 possesses dihydroxyindole carboxylic acid oxidase activity, the function in human melanocytes is less clear. In addition to its role in melanin synthesis, Tyrp1 is involved in stabilizing of tyrosinase protein and modulating its catalytic activity. Tyrp1 is also involved in maintenance of melanosome structure and affects melanocyte proliferation and melanocyte cell death. [Wiki]
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	ELISA, IHC-P
Immunogen	A recombinant human partial protein corresponding to amino acids 257-377 was used as the immunogen for the TYRP1 antibody.
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
Application notes	Titering of the TYRP1 antibody may be required for optimal performance.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG2b, kappa

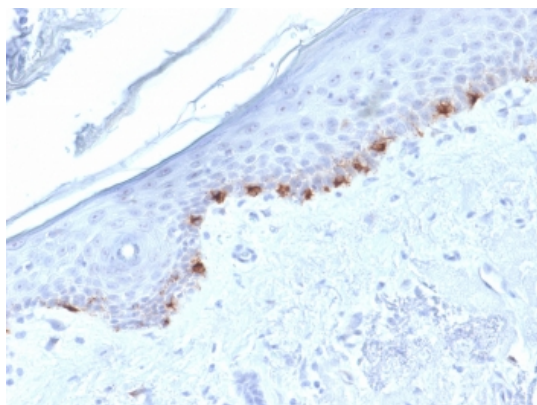
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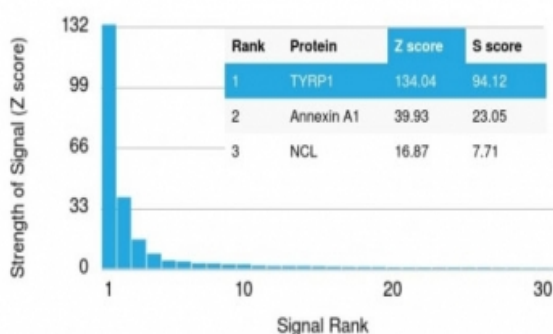
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Clonality	Monoclonal
Clone Number	TYRP1/1986
Antibody Type	Primary Antibody
Uniprot ID	P17643
Hazard Information	This TYRP1 antibody is available for research use only.
Dilution Range	ELISA: 2-4ug/ml (order BSA/azide-free format),Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human skin with TYRP1 antibody (clone TYRP1/1986). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

Human Protein Microarray Specificity Validation



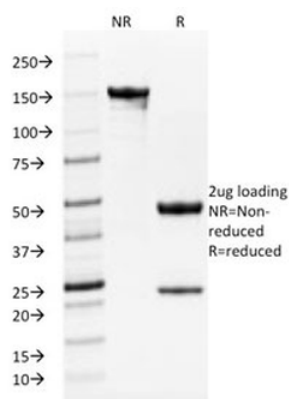
Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using TYRP1 antibody (clone TYRP1/1986). These results demonstrate the foremost specificity of the TYRP1/1986 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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.

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SDS-PAGE analysis of purified, BSA-free TYRP1 antibody (clone TYRP1/1986) as confirmation of integrity and purity.

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