

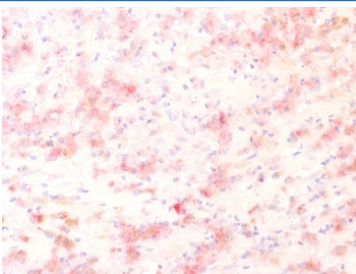
## Recombinant TYRP1 Antibody / Tyrosinase Related Protein 1 / TRP1 [clone TYRP1/1564R] (V7273)

Catalog No.	Formulation	Size
V7273-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7273-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7273SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

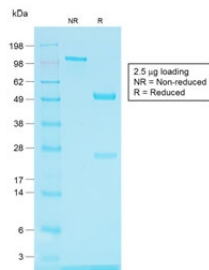
Recombinant **RABBIT MONOCLONAL**

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Recombinant Rabbit Monoclonal
<b>Isotype</b>	Rabbit IgG, kappa
<b>Clone Name</b>	TYRP1/1564R
<b>Purity</b>	Protein A affinity chromatography
<b>UniProt</b>	P17643
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This recombinant TYRP1 antibody is available for research use only.



IHC testing of FFPE human melanoma with recombinant TYRP1 antibody, HRP secondary and AEC chromogen. HIER: steam sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min.



SDS-PAGE analysis of purified, BSA-free recombinant TYRP1 antibody (clone TYRP1/1564R) as confirmation of integrity and purity.

## Description

Recombinant TYRP1 antibody detects tyrosinase-related protein 1, encoded by the TYRP1 gene. TYRP1 is a melanosomal glycoprotein involved in the production and stabilization of eumelanin, the pigment responsible for brown and black coloration. It is expressed primarily in melanocytes and melanoma cells, where it functions alongside tyrosinase and TRP-2 to regulate pigmentation. Because of its restricted expression and role in melanoma biology, Recombinant TYRP1 antibody is widely used in pigment research, dermatology, and cancer studies.

Structurally, TYRP1 is a type I transmembrane protein with an intraluminal catalytic domain and a metal-binding site that stabilizes melanin intermediates. Although its enzymatic activity is weaker than tyrosinase, it contributes significantly to pigment stability and oxidative balance. Mutations in TYRP1 can lead to pigmentation disorders, including oculocutaneous albinism. Its expression in melanoma also makes it a useful biomarker for diagnostic and therapeutic investigations.

The Recombinant TYRP1 antibody clone TYRP1/1564R provides reliable and consistent detection. Recombinant production guarantees uniform performance across lots, making clone TYRP1/1564R suitable for long-term studies. Peer-reviewed research has cited antibodies against TYRP1 in studies of melanoma immunology, pigment biosynthesis, and targeted immunotherapy. This clone supports investigations into both fundamental pigment biology and translational oncology.

Research using clone TYRP1/1564R has demonstrated how TYRP1 serves as a melanoma-associated antigen and a target for immune recognition. Detection of TYRP1 helps distinguish melanocytic tumors from other neoplasms, improving diagnostic accuracy. In addition, the antibody supports therapeutic research where TYRP1-specific T cells or antibody-drug conjugates are explored for melanoma treatment. Beyond oncology, TYRP1 detection has advanced understanding of melanocyte development and genetic pigment variation.

NSJ Bioreagents supplies this Recombinant TYRP1 antibody to support studies in melanoma, pigment biology, and translational immunology. Alternate names include TYRP1 antibody, tyrosinase-related protein 1 antibody, gp75 antibody, melanocyte differentiation antigen antibody, and melanosomal protein antibody.

## Application Notes

The optimal dilution of the recombinant TYRP1 antibody for each application should be determined by the researcher.

## Immunogen

Human recombinant protein used as the immunogen for this recombinant TYRP1 antibody.

## Storage

Store the recombinant TYRP1 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

