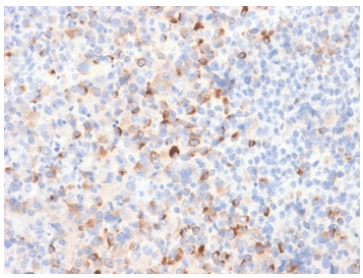
Recombinant Tyrosinase Antibody [clone TYR/2024R] (V3657)

Catalog No.	Formulation	Size
V3657-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3657-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3657SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3657IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

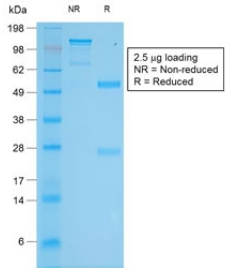
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	TYR/2024R
Purity	Protein A affinity chromatography
UniProt	P14679
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This recombinant Tyrosinase antibody is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human melanoma stained with recombinant Tyrosinase antibody (clone TYR/2024R). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH9, or 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant Tyrosinase antibody (clone TYR/2024R) as confirmation of integrity and purity.

Description

Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally a minor band at 55kDa is also detected. This mAb shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75. Tyrosinase is a copper-containing metalloglycoprotein that catalyzes several steps in the melanin pigment biosynthetic pathway; the hydroxylation of tyrosine to L-3,4-dihydroxy-phenylalanine (dopa), and the subsequent oxidation of dopa to dopaquinone. Mutations of the tyrosinase gene occur in various forms of albinism. Tyrosinase is one of the targets for cytotoxic T-cell recognition in melanoma patients. Staining of melanomas with this mAb shows tyrosinase in melanotic as well as amelanotic variants. This mAb is a useful marker for melanocytes and melanomas.

For a broader overview of TYR biology, melanin biosynthesis, and melanocyte function, see our Tyrosinase Antibody / Melanin Biosynthesis Enzyme Antibody page.

Application Notes

The stated application concentrations are suggested starting points. Titration of the recombinant Tyrosinase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

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.

Immunogen

Recombinant protein was used as the immunogen for this recombinant Tyrosinase antibody.

Storage

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

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