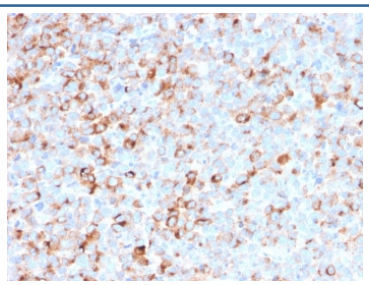
TYR Antibody Cocktail (Tyrosinase) [clone T311 + OCA1/812] (V2915)

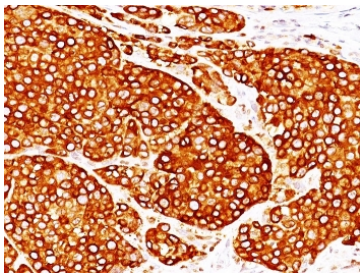
Catalog No.	Formulation	Size
V2915-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2915-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2915SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2915IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	T311 + OCA1/812
Purity	Protein G affinity chromatography
UniProt	P14679
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This TYR antibody cocktail is available for research use only.



IHC: Formalin-fixed, paraffin-embedded melanoma stained with TYR antibody (clones T311 + OCA1/812).



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Description

Recognizes a cluster of proteins between 70-80kDa, identified as Tyrosinase/TYR. 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

Optimal dilution of the TYR antibody cocktail should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.
2. 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 human protein was used as the immunogen for the TYR antibody cocktail.

Storage

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

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