

Tyrosinase Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7345b**Specification**

Tyrosinase Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P14679](#)**Tyrosinase Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 7299**Other Names**

Tyrosinase, LB24-AB, Monophenol monooxygenase, SK29-AB, Tumor rejection antigen AB, TYR

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7345b](/products/AP7345b) was selected from the C-term region of human Tyrosinase. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Tyrosinase Antibody (C-term) Blocking Peptide - Protein Information**Name** TYR ([HGNC:12442](#))**Function**

This is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds. Catalyzes the initial and rate limiting step in the cascade of reactions leading to melanin production from tyrosine (By similarity). In addition to hydroxylating tyrosine to DOPA (3,4- dihydroxyphenylalanine), also catalyzes the oxidation of DOPA to DOPA-quinone, and possibly the oxidation of DHI (5,6-dihydroxyindole) to indole-5,6 quinone (PubMed:[28661582](http://www.uniprot.org/citations/28661582)).

Cellular Location

Melanosome membrane; Single-pass type I membrane protein. Melanosome {ECO:0000250|UniProtKB:P11344}. Note=Proper trafficking to melanosome is regulated by SGSM2, ANKRD27, RAB9A, RAB32 and RAB38 {ECO:0000250|UniProtKB:P11344}

Tyrosinase Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Tyrosinase Antibody (C-term) Blocking Peptide - Images

Tyrosinase Antibody (C-term) Blocking Peptide - Background

TYR catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. The protein has both tyrosine hydroxylase and dopa oxidase catalytic activities, and requires copper for function. Mutations in this protein result in oculocutaneous albinism, and nonpathologic polymorphisms result in skin pigmentation variation.

Tyrosinase Antibody (C-term) Blocking Peptide - References

Ostankovitch, M. J. Immunol. 182 (8), 4830-4835 (2009) Chintamaneni, C.D. Proc. Natl. Acad. Sci. U.S.A. 88 (12), 5272-5276 (1991)