abcam

Product datasheet

Recombinant Human Tyrosinase protein (Tagged) ab152776

1 Image

Description

Product name	Recombinant Human Tyrosinase protein (Tagged)
Expression system	Wheat germ
Accession	P14679-2
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MLLAVLYCLLWSFQTSAGHFPRACVSSKNLMEKECCPP WSGDRSPCGQLS GRGSCQNILLSNAPLGPQFPFTGVDDRESWPSVFYNRTC QCSGNFMGFNC GNCKFGFWGPNCTERRLLVRRNIFDLSAPEKDKFFAYLTL AKHTISSDYV IPIGTYGQMKNGSTPMFNDINIYDLFVWMHYYVSMDALLGG SEIWRDIDF AHEAPAFLPWHRLFLLRWEQEIQKLTGDENFTIPYWDWR DAEKCDICTDE YMGGQHPTNPNLLSPASFFSSWQIVCSRLEEYNSHQPLC NGTPEGPLRRN PGNHDKSRTPRLPSSADVEFCLSLTQYESGSMDKAANFS FRNTLEEMGFL HVGWAGLKLLTSRDPPPWPPKMLGLQA
Predicted molecular weight	67 kDa including tags
Amino acids	1 to 377
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab152776** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot
	SDS-PAGE

	ELISA
Form	Liquid

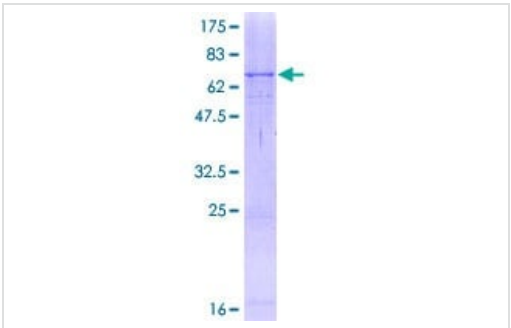
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	This is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds. Catalyzes the rate-limiting conversions of tyrosine to DOPA, DOPA to DOPA-quinone and possibly 5,6-dihydroxyindole to indole-5,6 quinone.
Involvement in disease	Defects in TYR are the cause of albinism oculocutaneous type 1A (OCA1A) [MIM:203100]; also known as tyrosinase negative oculocutaneous albinism. An autosomal recessive disorder in which the biosynthesis of melanin pigment is absent in skin, hair, and eyes. It is characterized by complete lack of tyrosinase activity due to production of an inactive enzyme. Patients present with a life-long absence of melanin pigment after birth, and manifest increased sensitivity to ultraviolet radiation with predisposition to skin cancer. Visual anomalies include decreased acuity, nystagmus, strabismus and photophobia. Defects in TYR are the cause of albinism oculocutaneous type 1B (OCA1B) [MIM:606952]; also known as albinism yellow mutant type. An autosomal recessive disorder in which the biosynthesis of melanin pigment is reduced in skin, hair, and eyes. It is characterized by partial lack of tyrosinase activity. Patients have white hair at birth that rapidly turns yellow or blond. They manifest the development of minimal-to-moderate amounts of cutaneous and ocular pigment. Some patients may have with white hair in the warmer areas (scalp and axilla) and progressively darker hair in the cooler areas (extremities). This variant phenotype is due to a loss of tyrosinase activity above 35-37 degrees C.
Sequence similarities	Belongs to the tyrosinase family.
Cellular localization	Melanosome membrane.

Images



SDS-PAGE - Recombinant Human Tyrosinase protein (Tagged) (ab152776)

12.5% SDS-PAGE analysis of ab152776 stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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