abcam

Product datasheet

Tyrosinase overexpression 293T lysate (whole cell) ab94149

2 Images

Overview

Product name	Tyrosinase overexpression 293T lysate (whole cell)
General notes	ab94149 is a 293T cell transfected lysate in which Human Tyrosinase has been transiently over-expressed using a pCMV-Tyrosinase plasmid. The lysate is provided in 1X Sample Buffer.
Tested applications	**Suitable for:** WB

Properties

Mycoplasma free	Yes
Form	Liquid
Storage instructions	Shipped on dry ice. Upon delivery aliquot and store at -20ºC. Avoid freeze / thaw cycles.
Storage buffer	Constituents: 0.01% Bromophenol blue, 2.3% Beta mercaptoethanol, 2% Sodium lauryl sulfate, 0.788% Tris HCl, 10% Glycerol (glycerin, glycerine)
Background	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. 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. Similarity: Belongs to the tyrosinase family.

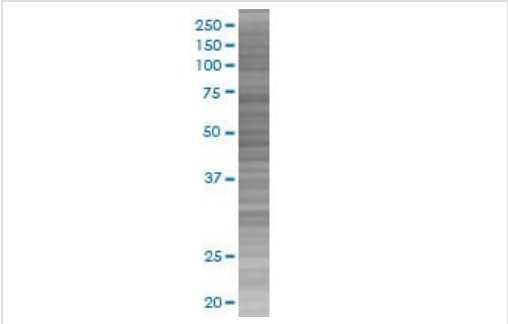
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab94149 in the following tested applications.

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

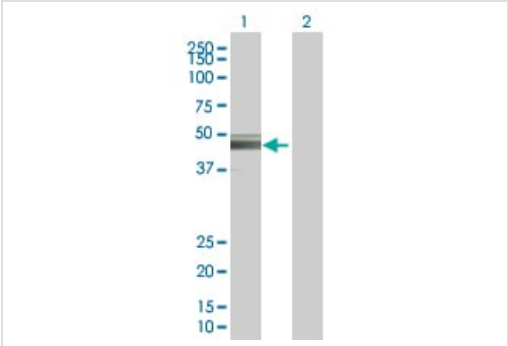
Application	Abreviews	Notes
WB		Use at an assay dependent dilution.

Images



SDS-PAGE - Tyrosinase overexpression 293T lysate (whole cell) (ab94149)

ab94149 at 15µg/lane on an SDS-PAGE gel.



Western blot - Tyrosinase overexpression 293T lysate (whole cell) (ab94149)

All lanes : Anti-Tyrosinase antibody (**ab58284**) at 1/500 dilution

Lane 1 : Tyrosinase overexpression 293T lysate (whole cell) (ab94149)
Lane 2 : 293T non-transfected lysate

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : Goat Anti-mouse IgG (H and L) HRP comjugated at 1/2500 dilution

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