



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# Tyrosinase; Clone T311

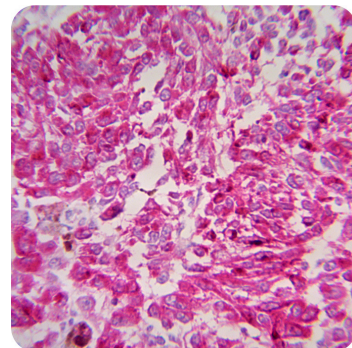
## (Concentrate)

<b>Availability/Contents:</b>	<u>Item #</u>	<u>Volume</u>
	A00132-C	1ml

**Description:**

Species:	Mouse
Immunogen:	A recombinant tyrosinase protein was used as the immunogen for the T311 antibody.
Clone:	T311
Isotype:	Mouse IgG1
Format:	This antibody is provided in a phosphate buffer saline containing 1% BSA.
Specificity:	Tyrosinase has been shown to be a very specific marker for melanomas, not cross reacting with other tumors or normal tissues tested.
Background:	Tyrosinase (Tyr) is a trans-membrane glycoprotein which plays a key role in the melanosynthetic pathway and is required for the synthesis of both types of melanin, eumelanin and pheomelanin (Hu, 2011). Tyrosinase is the rate limiting enzyme catalyzing the first two steps in the melanin biosynthesis, converting tyrosine to L-dihydroxy-phenylalanine (DOPA) and subsequently to DOPAquinone (K, 2013). The pigmentation of skin, the browning of vegetables, wound healing and cuticle formation in insects are some of the major responsibilities performed by tyrosinase (Yin, 2011). This protein is related with severe skin diseases such as type 1 albinism and melanoma and an important target for anti-melanoma vaccine therapies (Popescu, 2006 and Han, 2007). Anti-tyrosinase antibodies may be applied for immunotherapy in patients with malignant melanoma (Merimsky, 1998).
Species Reactivity:	Human.
Positive Control:	Human Melanoma
Cellular Localization:	Cell Membrane/ Membrane raft
Titer/ Working Dilution:	Immunohistochemistry 1:100 - 1:200
Microbiological State:	This product is not sterile.


**Uses/Limitations:** Not to be taken internally.  
 For Research Use Only.  
 This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.  
 Do not use if reagent becomes cloudy.  
 Do not use past expiration date.  
 Use caution when handling reagents.  
 Non-Sterile.




Human Melanoma stained using UltraTek Alk-Phos and Permanent Red Chromogen.

**Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)**

Storage: 2° C  8° C

 ScyTek Laboratories, Inc.  
 205 South 600 West  
 Logan, UT 84321  
 U.S.A.

**CE**

 EmergoEurope (31)(0) 70 345-8570  
 Molsnstraat 15  
 2513 BH Hague, The Netherlands

**Procedure:**

1. **Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
3. **Visualization:** For maximum staining intensity we recommend the “UltraTek HRP Anti-Polyvalent Lab Pack” (ScyTek catalog# UHP125, see IFU for instructions) combined with the “DAB Chromogen/Substrate Bulk Pack (High Contrast)” (ScyTek catalog# ACV500, see IFU for instructions).

**Precautions:**

Contains Sodium Azide as a preservative (0.09% w/v).

Do not pipette by mouth.

Avoid contact of reagents and specimens with skin and mucous membranes.

Avoid microbial contamination of reagents or increased nonspecific staining may occur.

This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

**References:**

1. Popescu CI, Mares A, Zdrentu L, Zitzmann N, Dwek RA, Petrescu SM. Productive folding of tyrosinase ectodomain is controlled by the transmembrane anchor. J Biol Chem. 2006 ;4; 281(31): 21682-9.
2. Han HY, Lee JR, Xu WA, Hahn MJ, Yang JM, Park YD. Effect of Cl<sup>-</sup> on tyrosinase: complex inhibition kinetics and biochemical implication. J Biomol Struct Dyn. 2007 ; 25(2):165-71.
3. Merimsky O, Shoenfeld Y, Fishman P. The clinical significance of antityrosinase antibodies in melanoma and related hypopigmentary lesions. Clin Rev Allergy Immunol. 1998;16(3):227-36.
4. Francis E, Wang N, Parag H, Halaban R, Hebert DN. Tyrosinase maturation and oligomerization in the endoplasmic reticulum require a melanocyte-specific factor. J Biol Chem. 2003 ;11; 278(28): 25607-17.
5. Hu HH, Guedj M, Descamps V, Jouary T, Bourillon A, Ezzedine K, Taieb A, Bagot M, Bensussan A, Saiag P, Grandchamp B, Basset-Seguin N, Soufir N. Assessment of tyrosinase variants and skin cancer risk in a large cohort of French subjects. J Dermatol Sci. 2011; 64(2):127-33.
6. Yin SJ, Si YX, Wang ZJ, Wang SF, Oh S, Lee S, Sim SM, Yang JM, Qian GY, Lee J, Park YD. The effect of thiobarbituric acid on tyrosinase: inhibition kinetics and computational simulation. J Biomol Struct Dyn. 2011.
7. K B, Purohit R. Mutational analysis of TYR gene and its structural consequences in OCA1A. Gene. 2013 Jan 15;513(1):184-95.

**Warranty:**

No products or “Instructions For Use (IFU)” are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

Storage: 2° C




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