

For Research Use Only

# TRP2/DCT Recombinant monoclonal antibody, PBS Only

Catalog Number: 88100-1-PBS



## Basic Information

|                                                             |                                                                                                            |                                                       |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>88100-1-PBS                       | <b>GenBank Accession Number:</b><br>BC028311                                                               | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ug , Concentration: 1 mg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>1638                                                                              | <b>CloneNo.:</b><br>260396B12                         |
| <b>Source:</b><br>Rabbit                                    | <b>UNIPROT ID:</b><br>P40126                                                                               |                                                       |
| <b>Isotype:</b><br>IgG                                      | <b>Full Name:</b><br>dopachrome tautomerase<br>(dopachrome delta-isomerase,<br>tyrosine-related protein 2) |                                                       |
| <b>Immunogen Catalog Number:</b><br>AG26165                 | <b>Calculated MW:</b><br>519 aa, 59 kDa                                                                    |                                                       |
|                                                             | <b>Observed MW:</b><br>59-63 kDa                                                                           |                                                       |

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human, rat, monkey

## Background Information

DCT (L-dopachrome Delta-isomerase) is also named as TYRP2, TRP2 and belongs to the tyrosinase family. Human TYRP2 protein has 83% identity and 90% similarity to the mouse sequence and has all the structural characteristics of the tyrosinase protein family, including a signal peptide, 15 conserved cysteine residues, 2 copper-binding domains, and a C-terminal membrane-spanning region (PMID:8206391). TYRP2 is involved in neural progenitor cell proliferation and has been implicated in drug and radiation resistance in malignant melanoma. Mutations in DCT cause oculocutaneous albinism type VIII (OCA8), and TYRP2 serves as both an early melanoblast marker and a melanoma-associated antigen with clinical relevance as a potential biomarker in immune checkpoint therapy.

## Storage

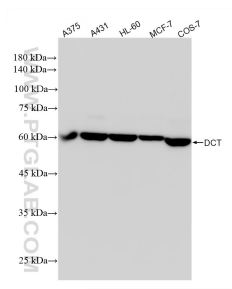
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88100-1-RR (DCT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88100-1-PBS in a different storage buffer formulation.