

## Product datasheet for **CF801362**

### Tyrosinase (TYR) Mouse Monoclonal Antibody [Clone ID: OTI1F3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F3
Applications:	IHC
Recommended Dilution:	IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 19-320 of human TYR (NP_000363) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	58.3 kDa
Gene Name:	tyrosinase
Database Link:	<a href="#">NP_000363</a> <a href="#">Entrez Gene 22173 Mouse</a> <a href="#">Entrez Gene 308800 Rat</a> <a href="#">Entrez Gene 7299 Human</a> <a href="#">P14679</a>



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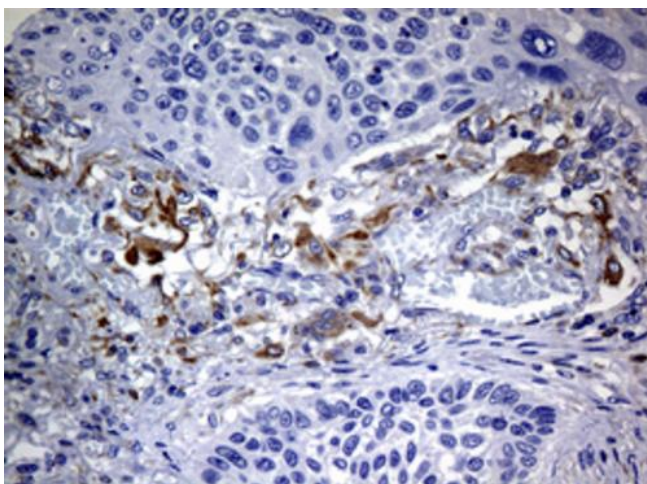
**Background:** The enzyme encoded by this gene catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. The enzyme has both tyrosine hydroxylase and dopa oxidase catalytic activities, and requires copper for function. Mutations in this gene result in oculocutaneous albinism, and nonpathologic polymorphisms result in skin pigmentation variation. The human genome contains a pseudogene similar to the 3' half of this gene. [provided by RefSeq, Oct 2008]

**Synonyms:** ATN; CMM8; OCA1; OCA1A; OCAIA; SHEP3

**Protein Families:** Transmembrane

**Protein Pathways:** Melanogenesis, Metabolic pathways, Riboflavin metabolism, Tyrosine metabolism

### Product images:



Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-TYR mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.