



## Anti-Tyrosinase

**CATALOG NO.: 53932**

### **BACKGROUND:**

Tyrosinase is a copper-containing metalloglycoprotein that catalyzes several steps in the melanin pigment biosynthetic pathway: the hydroxylation of tyrosine to L-3, 4-dihydroxy-phenylalanine (dopa), and the subsequent oxidation of dopa to dopaquinone. Mutations of the tyrosinase gene occur in various forms of albinism. Tyrosinase is one of the targets for cytotoxic T cell recognition in melanoma patients.

### **SOURCE & REACTIVITY:**

Mouse anti-tyrosinase monoclonal antibody was raised against a recombinant tyrosinase protein with the immunoglobulin isotype being IgG2a. Anti-tyrosinase reacts with tyrosinase at the molecular weight of 70-80 kDa on western blot. Species reactivity includes human, and cat, but weakly reacts towards mouse, while others are not tested.

### **APPLICATION:**

The following concentration ranges are recommended starting points for this product.

### **IFC**

**WB** (Ab 1-2 $\mu$ g/ml for 2hrs at room temperature (RT))

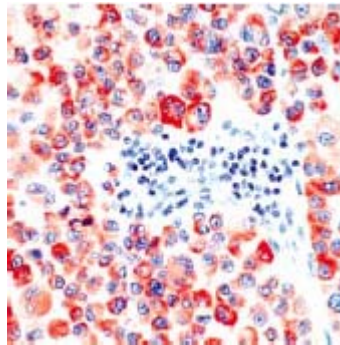
**IHC** (Formalin/paraffin)

Working dilution: 1:50 for 30 min at RT

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

Positive Control: Melanoma cell lines, melanoma.

Staining Pattern: Cytoplasmic



Human melanoma stained with anti-tyrosinase (Cat. #53932)

*This product is for in vitro research purposes only.*

### **STORAGE:**

0.25 ml antibody (at 200  $\mu$ g/ml), purified from ascites fluid by Protein A, in 1X PBS (pH 7.4) with 0.2% BSA and 0.05% sodium azide. Store at 2-8  $^{\circ}$ C for up to 1 year. Avoid repeated freeze thaw cycles.