

## Anti-Tyrosinase/TYR Antibody (5B146)

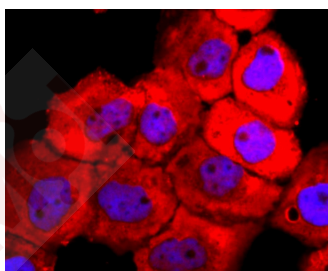
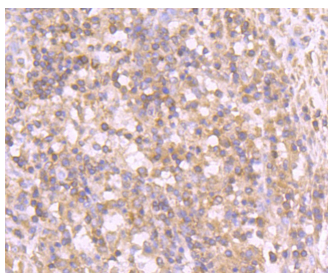
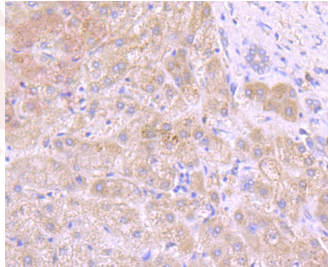
### Product Details

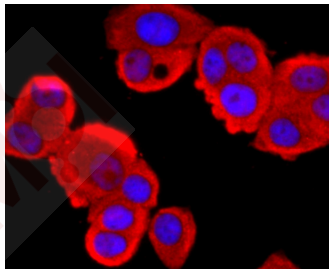
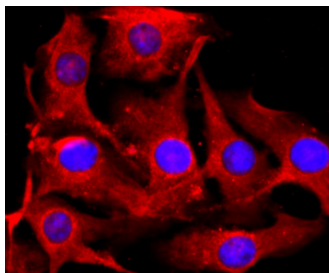
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 80 kDa.
Clone:	5B146
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Tyrosinase antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue using anti-Tyrosinase antibody. Counter stained with hematoxylin.
3. ICC staining Tyrosinase in A431 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining Tyrosinase in B16F1 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining Tyrosinase in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,WB

Recommended WB: 1:500-1000; IHC: 1:50-200; ICC/IF: 1:100-500

#### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

#### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P14679

Synonyms: LB24-AB;Tyrosinase;SK29-AB;Tumor rejection antigen AB;TYR;Monophenol monooxygenase

#### Research Background

This is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds. Catalyzes the initial and rate limiting step in the cascade of reactions leading to melanin production from tyrosine. In addition to hydroxylating tyrosine to DOPA (3,4-dihydroxyphenylalanine), also catalyzes the oxidation of DOPA to DOPA-quinone, and possibly the oxidation of DHI (5,6-dihydroxyindole) to indole-5,6 quinone. 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481