

Anti-Mouse TYRP1 / TRP1 (TA99) Antibody - Low Endotoxin

Product Code: ICH1238

More Information

Species Reactivity: Mouse / Human

Target: TYRP1/TRP1 (gp75)

Concentration: >1mg/ml

Isotype: Mouse IgG2a Kappa

Host: Mouse

product name H2: Anti-Mouse TYRP1 / TRP1 (TA99) Antibody - Low Endotoxin

Aggregation: Aggregation level $\leq$ 5%

Immunogen: SK-MEL-23 Melanoma cell line

Buffer: ICH3002-100ml

UniProt: P07147

Gene ID: 22178

Shipping Conditions: Blue ice

background: This is clone TA99 (also written TA-99), a mouse monoclonal of the IgG2a, kappa isotype raised against TYRP1/TRP1 (gp75), the product of the mouse brown (b) locus. Because it is a mouse IgG2a, the antibody engages activating Fc-gamma receptors and complement effectively, making it well suited to Fc-dependent functional and in-vivo antitumour studies in immunocompetent mice as well as to biochemical and imaging applications. It is broadly validated across ELISA, immunoprecipitation, immunocytochemistry, immunofluorescence, immunohistochemistry, radioimmunoassay and functional/in-vivo assays, and per the product record reacts with mouse and human

TYRP1 (UniProt P07147). Supplied as a low-endotoxin, bulk-scale (milligram to gram) research-grade preparation for research use only, it is intended for laboratories running antibody-dependent effector, tumour-immunology, melanocyte-biology and pigmentation experiments where carryover endotoxin and lot-to-lot consistency matter. Low endotoxin and bulk formatting make it appropriate for repeat-dosing in-vivo work and larger in-vitro campaigns without reformulation. TYRP1 (tyrosinase-related protein 1), also called TRP1 or gp75, is a melanosomal type-I membrane glycoprotein and one of the most abundant melanocyte proteins. It belongs to the tyrosinase family and contributes to the eumelanin synthesis pathway, where it participates in the oxidation of DHICA (5,6-dihydroxyindole-2-carboxylic acid) and stabilises and modulates the activity of tyrosinase within the melanosome; loss-of-function alleles produce brown rather than black coat colour in mice and a form of oculocutaneous albinism in humans. Because it is highly and selectively expressed by melanocytes and by most melanomas, and because part of the molecule is accessible at the cell surface, TYRP1/gp75 is a classic melanoma differentiation antigen and a target for antibody-mediated recognition. Its restricted, lineage-specific expression underlies its use as a melanocytic marker in histology and as an immunotherapy target antigen.

Other names: CAS2, CATB, GP75, OCA3, TRP, 5, 6-dihydroxyindole-2-carboxylic acid oxidase, TRP1, TRP-1, catalase B, DHICA oxidase, glycoprotein 75, melanoma antigen gp75, MEL-5, TA 99, TA99

clone: TA-99

Purification Method: This monoclonal antibody was purified using Protein A

Formulation: This antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2, 150 mM NaCl with no carrier protein, potassium or preservatives added.

Purity: >95% by SDS-PAGE and HPLC

Endotoxin: ≤ 1.0 EU/mg as determined by the LAL method

Storage: This low endotoxin antibody is stable when stored at 2-8°C for at least four (4) weeks. For long-term storage aseptically aliquot in working volumes without diluting and store at -80°C. Avoid Repeated Freeze Thaw Cycles.

Applications: ELISA, Functional Assays, Immuno Cytochemistry, Immunofluorescence Microscopy, Immunohistochemistry, in vivo, Immunoprecipitation, Radio Immunoassays

Use: Products are for research use only. Not for use in diagnostic or therapeutic procedures.

Bio X Cell Code: BE0372

Suggested H1: Anti-Mouse TYRP1 / TRP1 (TA99) Antibody - Low Endotoxin

FAQ (Q&A):

Q: Is clone TA-99 suitable for in vivo work?

A: Yes — TA-99 is supplied low-endotoxin and in vivo-grade for in vivo and in vitro TYRP1/TRP1 (gp75) studies.

Q: Can I order TA-99 in bulk?

A: Yes, it is manufactured in scalable milligram to gram quantities for bulk and high-throughput experiments.

Q: What does clone TA-99 target?

A: It is a monoclonal antibody that binds TYRP1/TRP1 (gp75); for research use only.