

APC-Labeled Mouse H-2Db&B2M&TRP1 (TAPDNLGYA) Tetramer Protein

Catalog # H2P-HA2H7



Synonym

H-2Db & B2M & TRP1 (TAPDNLGYA)

Source

APC-Labeled Mouse H-2Db&B2M&TRP1 (TAPDNLGYA) Tetramer Protein(H2P-HA2H7) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Val 309 (H-2Db) & Ile 21 - Met 119 (B2M) & TAPDNLGYA peptide (Accession # [P01899](#) (H-2Db) & [P01887](#) (B2M) & TAPDNLGYA). Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

APC-Labeled Mouse H-2Db&B2M&TRP1 (TAPDNLGYA) Tetramer Protein is assembled by biotinylated monomer and APC-labeled streptavidin.
Biotinylated Mouse H-2Db&B2M&TRP1 (TAPDNLGYA) Complex Protein is produced by co-expression of H-2Db and B2M loaded with TRP1 peptide. Biotinylated Mouse H-2Db&B2M&TRP1 (TAPDNLGYA) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

Conjugate

APC
Excitation Wavelength: 640 nm
Emission Wavelength: 661 nm

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

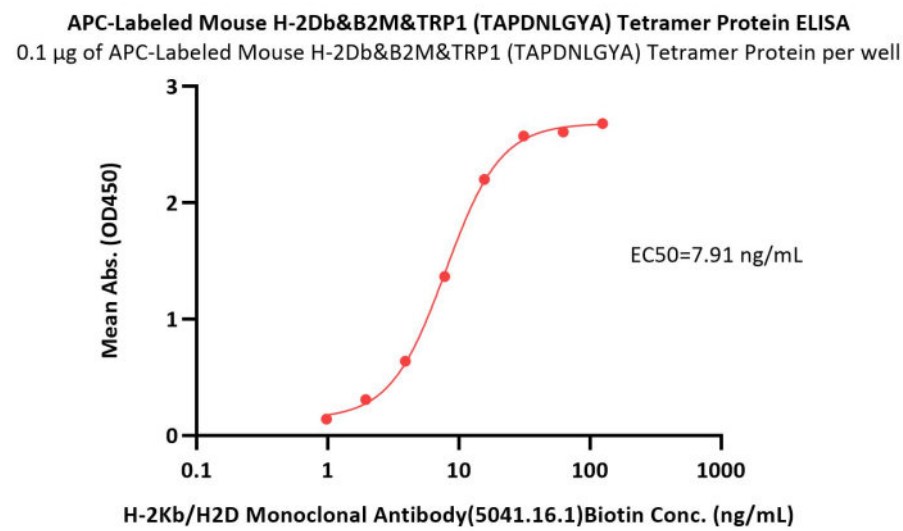
Reconstitution

Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please protect from light and avoid repeated freeze-thaw cycles.
This product is stable after storage at:
• -20°C to -70°C for 12 months in lyophilized state;
• -70°C for 3 months under sterile conditions after reconstitution.

Bioactivity-ELISA



Immobilized APC-Labeled Mouse H-2Db&B2M&TRP1 (TAPDNLGYA) Tetramer Protein (Cat. No. H2P-HA2H7) at 1 µg/mL (100 µL/well) can bind H-2Kb/H2D Monoclonal Antibody (5041.16.1) Biotin with a linear range of 1-16 ng/mL (Routinely tested).





Background

TRP1 refers to tyrosinase-related protein. TRP1 is encoded by the TYRP1 gene. It is the human homologue of the brown (b)-locus in mice, the corresponding protein of which is associated with melanogenesis and pigmentation disorders of the skin. The exact function of TRP1 is still unknown. Besides its enzymatic activity, it may also play a structural role in the melanosome. TYRP1 is involved in the production of eumelanin, but it has also been implicated in the maintenance of the ultrastructure of melanosomes, melanocyte proliferation, and apoptosis. Defects in TYRP1 are the cause of albinism oculocutaneous type 3 (OCA3).

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