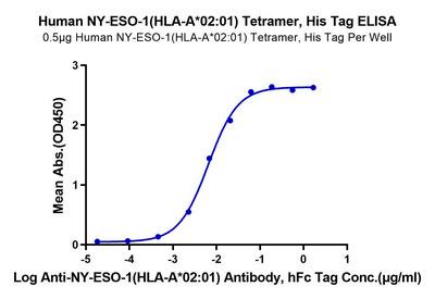
Bioactive CellTx™ HuPro®

HLA-A/B2M/CTAG1B Tetramer (Human) Recombinant Protein

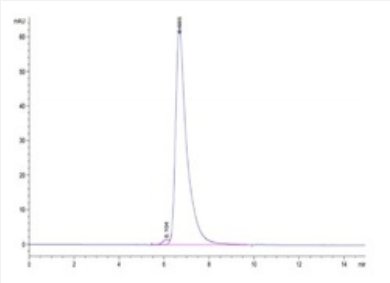
Catalog # P9754 Size 100 ug

Applications



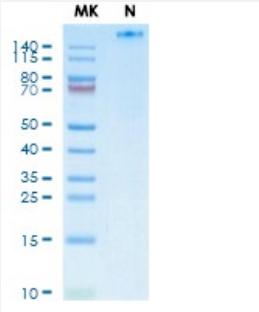
Enzyme-linked Immunoabsorbent Assay

Immobilized Human HLA-A*02:01 & B2M & NY-ESO-1 (SLLMWITQV) Tetramer, His Tag at 5 ug/mL (100uL/well) on the plate. Dose response curve for Anti-HLA-A*02:01 & B2M & NY-ESO-1 (SLLMWITQV) Antibody, hFc Tag with the EC50 of 6.5ng/mL determined by ELISA.



SEC-HPLC

The purity of Human HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQV) Tetramer is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQV) Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95%.

Specification

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Product Description	Human HLA-A | B2M | CTAG1B Tetramer (A0A140T913|P61769|P78358, Gly25-Thr305 | Ile21-Met 119 | SLLMWITQV) partial recombinant protein with His-Avi tag at C-terminus expressed in HEK293 cells.
Sequence	Gly25-Thr305 | Ile21-Met119 | SLLMWITQV
Host	Human
Theoretical MW (kDa)	258
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQV) Tetramer is greater than 95% a s determined by SEC-HPLC. Tris-Bis PAGE Human HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQV) Tetramer on Tris-Bis PAGE under Non redu cing (N) condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human HLA-A*02:01 & B2M & NY-ESO-1 (SLLMWITQV) Tetramer, His Tag at 5 ug/mL (100uL/well) on the plate. Dose response curve for Anti-HLA-A*02:01 & B2M & NY-ESO-1 (SLLMWITQV) Antibody, hFc Tag with the EC50 of 6.5ng/mL determined by ELISA.
- SDS-PAGE

Gene Info — B2M

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Entrez GeneID	567
Protein Accession#	A0A140T913(HLA-A*02:01) | P61769(B2M) | SLLMWITQV
Gene Name	B2M
Gene Alias	-
Gene Description	beta-2-microglobulin
Omim ID	109700 241600
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a serum protein found in association with the major histocompatibility complex (MHC) class I heavy chain on the surface of nearly all nucleated cells. The protein has a predominantly beta-pleated sheet structure that can form amyloid fibrils in some pathological conditions. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia
Other Designations	beta chain of MHC class I molecules|beta-2-microglobin

Gene Info — CTAG1B

Entrez GeneID	1485
Protein Accession#	A0A140T913(HLA-A*02:01) | P61769(B2M) | SLLMWITQV
Gene Name	CTAG1B
Gene Alias	CTAG, CTAG1, ESO1, LAGE-2, LAGE2B, NY-ESO-1
Gene Description	cancer/testis antigen 1B
Omim ID	300156
Gene Ontology	Hyperlink
Gene Summary	Cancer/testis antigens, such as CTAG1B, are expressed in a variety of malignant tumors but solely in testis among normal adult tissues (Yoshida et al., 2006 [PubMed 16596224]).[supplied by OMIM
Other Designations	New York esophageal squamous cell carcinoma 1|OTTHUMP00000026025|OTTHUMP00000026042|cancer antigen 3

Pathway

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- Antigen processing and presentation

Disease

- Arthritis
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease
- Edema
- Gastritis
- Genetic Predisposition to Disease
- Kidney Failure
- Osteoarthritis
- Parkinson disease
- Stomach Neoplasms

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