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Product Information

MemDX™ Human CTLA4 (delta23) HEK293 Cell Line

Cat. No.: **S01YF-0123-KX81**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
CTLA4 (delta23)

Target Protein Species
Human

Protein Tag
Tag-free

Host Cell Type
HEK293

Target Classification
Immune Checkpoint

Target Family
Immune Checkpoint

Target Research Area
Autoimmune Research; Immunology Research

Related Diseases
Immune Dysregulation With Autoimmunity; Immunodeficiency; And Lymphoproliferation; Celiac Disease

Product Properties

Morphology
Fibroblastoid cells growing as a monolayer

Assay Types
Drug screening and biological assays

Resistance
Puromycin

Mycoplasma Testing
Negative

Sterility Testing

10 passages

Biosafety Level

Level 1

Activity

Yes

Quantity

$5x10^6$ cells

Form

Frozen cells

Freeze Medium

70% DMEM + 20% FBS + 10% DMSO

Culture Medium

DMEM + 10% FBS + 1μg/mL Puromycin

Selective Antibiotic(s)

Regular antibiotics active against mycoplasmas, bacteria and fungi.

Handling Notes

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.
Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.
Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

Incubation

37°C with 5% CO_2

Applications

Drug screening and biological assays

Application Notes

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO_2 to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening andfunctional assays.

Use Restrictions

These cells are distributed for research use only.

Shipping

Dry ice

Storage

Liquid nitrogen

Target

Full Name

Cytotoxic T-lymphocyte associated protein 4

Introduction

This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases.

Alternative Names

CTLA4; CD; GSE; GRD4; ALPS5; CD152; CTLA-4; IDDM12; CELIAC3; cytotoxic T-lymphocyte protein 4celiac disease 3; cytotoxic T lymphocyte associated antigen 4 short spliced form; cytotoxic T-lymphocyte-associated serine esterase-4; insulin-dependent diabetes mellitus 12; ligand and transmembrane spliced cytotoxic T lymphocyte associated antigen 4; Cytotoxic T-lymphocyte associated protein 4

Gene ID

1493

UniProt ID

P16410