

# Product Information

## MemDX™ Membrane Protein Human CTLA4 (Cytotoxic T-lymphocyte associated protein 4) for Antibody Discovery

Cat. No.: **MP1300J**

This product is for research use only and is not intended for diagnostic use.

This product is a 39.9 kDa Human CTLA4 membrane protein expressed in CHO. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

CTLA4

#### Protein Length

Partial (37-162aa)

#### Protein Class

Druggable Genome, Transmembrane

#### Molecular Weight

39.9 kDa

#### TMD

1

#### Sequence

MACLGFRHKAQLNLATRTWPCTLLFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEY  
ASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLR  
AMDTGLYICKVELMYPPPYLIGINGTQIYVIDPEPCPDSDFLLWILAAVSSGLFFYSFL  
LTAVSLSKMLKKRSPLTTGVYVKMPPTPEPECEKQFQPYFIPIN

### Product Description

#### Expression Systems

CHO

#### Tag

Fc chimera

#### Form

Liquid

**Endotoxin**

<0.01 ng/μg

**Purity**

>95% as determined by Coomassie stained SDS-PAGE

**Buffer**

1 x PBS

**Storage**

Store at +4°C for up to one week or several months at -80°C

**Target****Target Protein**

CTLA4

**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**

CD; GSE; GRD4; ALPS5; CD152; CTLA-4; IDDM12; CELIAC3

**Gene ID**

[1493](#)

**UniProt ID**

[P16410](#)