

# Product Information

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

Cat. No.: **MP0040Q**

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**

Full-length

#### **Protein Class**

Druggable Genome, Transmembrane

#### **Molecular Weight**

39.9 kDa

#### **TMD**

1

#### **Sequence**

MACLGFRHKAQLNLATRTWPCTLLFLLFIPVFCKAMHVAQPAVVLASSRGIAFVCEYASPGKATEVRVTVLRQADSQVTEVCA

### Product Description

#### **Expression Systems**

CHO

#### **Tag**

Fc chimera

#### **Form**

Powder

#### **Endotoxin**

Less than 0.01 ng per µg protein

**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**

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

**Gene ID**

[1493](#)

**UniProt ID**

[P16410](#)