

**Human CT-1 Antibody (2A5D4), mAb, Mouse****Cat. No.:** A01537-40**Size:** 40 µg**Synonyms:** Cardiotrophin-1 Antibody, mAb, Mouse;  
Cardiophin 1 antibody**Description:**

Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, leukemia inhibitory factor (LIF), oncostatin M (OSM), and ciliary neurotrophic factor (CNTF). It was originally isolated based on its ability to induce cardiac myocyte hypertrophy *in vitro*. CT-1 has since been shown to be a pleiotrophic cytokine with overlapping actions with other IL-6 family members on a variety of cell types. Human CT-1 encodes a 201 amino acid (aa) residue protein that lacks a hydrophobic signal peptide. CT-1 is highly expressed in heart, skeletal muscle, liver, lung, and kidney. Lower level of CT-1 expression is also seen in testis and brain. CT-1 initiates downstream signaling pathways through the heterodimerization of gp130 and the LIF receptor β subunit. A third α receptor subunit has recently been implicated in the receptor complex.

**GenScript Human CT-1 Antibody (2A5D4), mAb, Mouse** is produced from the hybridoma resulting from fusion of Sp2/0 myeloma and lymphocytes obtained from mouse immunized with purified full length human recombinant CT-1 protein (Swiss Prot: Q16619).

**Immunogen:** Purified full length human recombinant CT-1 protein (Swiss Prot: Q16619)**Host:** Mouse**Antigen Synonyms:** Human**Conjugation:** Unconjugated**Fusion Partner:**

Spleen cells were fused with SP2/0-Ag14 mouse myeloma cells

**Formulation:**

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

**Clone:** 2A5D4**Ig Subclass:** IgG1, κ**Specificity:** No cross-reactivity with other proteins was detected.**Purification:** Protein A affinity column**Applications:****Western Blot:** 0.5–1.0 µg/ml**Other Applications:** user-optimized**Reconstitution:**

Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/ml.

**Storage:**

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.