

**DATASHEET**

Version: 2016-08-17

**Human CT-1 Antibody (6F7F9), mAb, Mouse****Cat. No.:** A01060-40**Size:** 40 µg**Synonyms:** Mouse Anti-CT-1 mAb; 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 pleiotropic 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  $\beta$  subunit. A third  $\alpha$  receptor subunit has recently been implicated in the receptor complex.

**GenScript Human CT-1 Antibody (6F7F9), 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 are fused with SP2/0-Ag14 mouse myeloma cells.

**Predicated Band Size:**

21.5 kD

**Formulation:**

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

**Clone:** 6F7F9

**Ig Subclass:** IgG1  $\kappa$

**Specificity:** React with Human CT-1, not yet tested in other species

**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.