

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 β subunit. A third α 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 κ

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.