

CD137L (C-20): sc-11817

BACKGROUND

CD137, also designated ILA and 4-1BB in mouse, belongs to the tumor necrosis factor receptor family and delivers a costimulatory signal to T lymphocytes. CD137 is expressed on activated T cells and binds an inducible ligand that is found on B cells, macrophages and dendritic cells. Interactions between CD137 and its ligand are involved in antigen presentation and the generation of cytotoxic T cells. Crosslinking of the CD137 ligand induces apoptosis in resting lymphocytes. In contrast, CD137 regulates peripheral monocyte survival by inducing a cytokine release profile, and is mediated by M-CSF and to a lesser extent by granulocyte-macrophage colony-stimulating factor and IL-3. Soluble forms of CD137 are found in sera from patients with rheumatoid arthritis and may provide a negative control mechanism for immune responses.

REFERENCES

1. Chalupny, N.J., et al. 1992. T cell activation molecule 4-1BB binds to extracellular matrix proteins. *Proc. Natl. Acad. Sci. USA* 89: 10360-10364.
2. Pollok, K.E., et al. 1993. Inducible T cell antigen 4-1BB. Analysis of expression and function. *J. Immunol.* 150: 771-781.
3. Kim, Y.J., et al. 1993. Novel T cell antigen 4-1BB associates with the protein tyrosine kinase p56lck1. *J. Immunol.* 151: 1255-1262.

CHROMOSOMAL LOCATION

Genetic locus: TNFSF9 (human) mapping to 19p13.3.

SOURCE

CD137L (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CD137L of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-11817 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CD137L (C-20) is recommended for detection of CD137L of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CD137L siRNA (h): sc-42827, CD137L shRNA Plasmid (h): sc-42827-SH and CD137L shRNA (h) Lentiviral Particles: sc-42827-V.

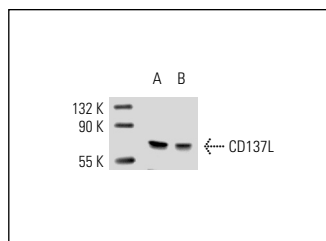
Molecular Weight of CD137L: 60 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226, Daudi cell lysate: sc-2415 or CCRF-CEM cell lysate: sc-2225.

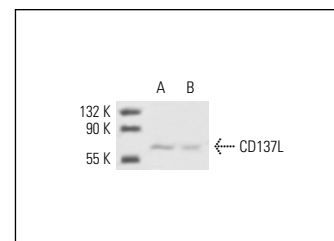
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CD137L (C-20): sc-11817. Western blot analysis of CD137L expression in COLO 320DM (A) and Daudi (B) whole cell lysates.



CD137L (C-20): sc-11817. Western blot analysis of CD137L expression in Raji (A) and CCRF-CEM (B) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Salih, H.R., et al. 2001. Soluble CD137 (4-1BB) ligand is released following leukocyte activation and is found in sera of patients with hematological malignancies. *J. Immunol.* 167: 4059-4066.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **CD137L (ANC5D6): sc-65279**, our highly recommended monoclonal alternative to CD137L (C-20).