

B7-2 (h): 293T Lysate: sc-114494

BACKGROUND

T cell proliferation and lymphokine production are triggered by occupation of the TCR by antigen, followed by a costimulatory signal that is delivered by a ligand expressed on antigen presenting cells. The B7-related cell surface proteins B7-1 (CD80) and B7-2 (CD86) expressed on antigen presenting cells bind the homologous T cell receptors CD28 and CTLA-4 (cytotoxic T lymphocyte-associated protein-4) and trigger costimulatory signals for optimal T cell activation. CTLA-4 shares 31% overall amino acid identity with CD28, and it has been proposed that CD28 and CTLA-4 are functionally redundant. SLAMF is a novel receptor on T cells that, when engaged, potentiates T cell expansion in a CD28-independent manner. B7, also designated BB1, is another ligand or counterreceptor for CD28 and CTLA-4 that is expressed on the antigen-presenting cell.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CD86 (human) mapping to 3q13.33.

PRODUCT

B7-2 (h): 293T Lysate represents a lysate of human B7-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

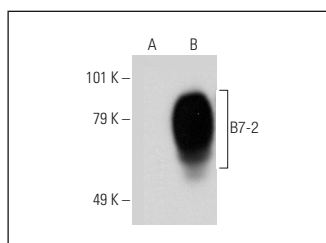
APPLICATIONS

B7-2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive B7-2 antibodies. Recommended use: 10-20 µl per lane.

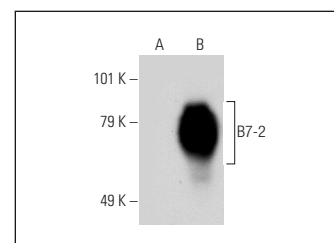
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

B7-2 (B-T7): sc-58915 is recommended as a positive control antibody for Western Blot analysis of enhanced human B7-2 expression in B7-2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



B7-2 (B-T7): sc-58915. Western blot analysis of B7-2 expression in non-transfected: sc-117752 (A) and human B7-2 transfected: sc-114494 (B) 293T whole cell lysates.



B7-2 (BU63): sc-19617. Western blot analysis of B7-2 expression in non-transfected: sc-117752 (A) and human B7-2 transfected: sc-114494 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.