SANTA CRUZ BIOTECHNOLOGY, INC.

NKp46 (AKS1): sc-80901

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

NKp46 (lymphocyte antigen 94, LY94) is a natural cytotoxicity receptor that belongs to the immunoglobulin superfamily and is expressed by all resting or activated NK cells, but not on T cells or B cells. The NKp46 cDNA encodes a 304 amino acid type I transmembrane protein with an extracellular region preceded by a 21 residue signal peptide and 2 cysteine-bridged C2-type Ig-like domains. A stem connects the extracellular domain to a 19 amino acid, arginine containing-transmembrane domain. NKp46 is involved in natural cytotoxicity and is involved in the recognition and lysis of both human and murine tumor cells. NKp46-expressing NK cells may recognize target cells infected by influenza or parainfluenza without the decreased expression of target-cell MHC class I protein, providing a mechanism for NK cells to destroy virus-infected cells and tumor cells without the need for previous antigen stimulation.

REFERENCES

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4. Mandelboim, O., Lieberman, N., Lev, M., Paul, L., Arnon, T.I., Bushkin, Y., Davis, D.M., Strominger, J.L., Yewdell, J.W. and Porgador, A. 2001. Recognition of haemagglutinins on virus-infected cells by NKp46 activates lysis by human NK cells. Nature 409: 1055-1060.
5. Online Mendelian Inheritance in Man, OMIM ™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 604530. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
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SOURCE

NKp46 (AKS1) is a mouse monoclonal antibody raised against the extracellular region of NKp46 of bovine origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

NKp46 (AKS1) is recommended for detection of NKp46 of bovine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Molecular Weight of NKp46: 47 kDa.

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.