



NKTR (K-12): sc-103076

BACKGROUND

Natural killer (NK) cells, also referred to as large granular lymphocytes, are involved in the destruction of tumors and virus-infected cells through recognition of major histocompatibility complex (MHC)-class I molecules on cell surfaces. NKTR (natural killer triggering receptor), also known as Natural-killer cells cyclophilin-related protein, is a 1462 amino acid peripheral membrane protein that facilitates the binding of NK cells to tumor targets. Activation of NK cells by IL-2 changes the splicing pattern of NKTR, which results in upregulation of the full-length protein. The gene encoding NKTR maps to human chromosome 3, which is made up of about 214 million bases encoding over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NKTR (human) mapping to 3p22.1.

SOURCE

NKTR (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NKTR 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-103076 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NKTR (K-12) is recommended for detection of NKTR of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 NKTR siRNA (h): sc-78500, NKTR shRNA Plasmid (h): sc-78500-SH and NKTR shRNA (h) Lentiviral Particles: sc-78500-V.

Molecular Weight of NKTR: 150 kDa.

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) 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.

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.