BACKGROUND

A proliferation-inducing ligand (APRIL), also designated TNFSF13, is a Type II membrane protein that shares characteristics with other members of the tumor necrosis factor (TNF) cytokine family. APRIL is expressed in high levels in transformed cell lines and in human colon, thyroid, and lymphoid tumor tissues. APRIL is critically involved in the regulation of infections, inflammation, autoimmune diseases and tissue homeostasis. APRIL is implicated in the regulation of tumor cell growth. The C-terminal extracellular domain has a jelly roll topography and is important in ligand trimerization. The binding of the ligand to its respective receptor induces oligomerization, initiating downstream signaling events. Intrinsically to oligomerization is the formation of the receptor binding site at the junction between neighboring subunits, creating a multivalent ligand.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: TNFSF13/TNFSF12-TNFSF13 (human) mapping to 17p13.1; BC096441 (mouse) mapping to 11 B3.

SOURCE

APRIL (Sacha-1) is a rat monoclonal antibody raised against amino acids 105-250 of APRIL of human origin.

PRODUCT

Each vial contains 50 µg IgG2a in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

APRIL (Sacha-1) is recommended for detection of APRIL of mouse, rat and human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for APRIL siRNA (h): sc-39822, APRIL siRNA (m): sc-39823, APRIL shRNA Plasmid (h): sc-39822-SH, APRIL shRNA Plasmid (m): sc-39823-SH, APRIL shRNA (h) Lentiviral Particles: sc-39822-V and APRIL shRNA (m) Lentiviral Particles: sc-39823-V.

Molecular Weight of APRIL: 27 kDa.

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 website at www.scbt.com for detailed protocols and support products.