BACKGROUND

The orphan receptor ST2/T1 is a member of the IL-1R family, although it does not bind IL-1α, IL-1β or IL-1R antagonist, and it is preferentially expressed on the surface of T helper cell type 2 (Th2) cells, but not Th1 cells. The gene encoding human ST2 maps to chromosome 2q12.1 and its transcription is controlled by two distinct promoters, an upstream promoter, which directs transcription in hematopoietic cells, and a downstream promoter, which directs transcription in fibroblasts. ST2 is also alternatively spliced to produce three variants: the secreted soluble form (ST2), which is expressed in fibroblasts; the membrane-bound form (ST2L), which is expressed in hematopoietic cells; and ST2V, which is localized on the plasma membrane and is expressed in the stomach, small intestine and colon. ST2 has immunoregulatory properties and, therefore, may have therapeutic potential as an anti-inflammatory agent.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: IL1RL1 (human) mapping to 2q12.1; Ii1rl1 (mouse) mapping to 1 B.

SOURCE

ST2 (14J07) is a rat monoclonal antibody raised against an extracellular domain of ST2 of mouse origin.

PRODUCT

Each vial contains 100 µg IgG2a in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

ST2 (14J07) is recommended for detection of ST2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000); non cross-reactive with IL-1RI.


Molecular Weight of ST2: 63 kDa.

SELECT PRODUCT CITATIONS


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 for detailed protocols and support products.