**BACKGROUND**

ECSIT (Evolutionarily conserved signaling intermediate in Toll pathway) is a 431 amino acid ubiquitously expressed protein that plays an important role as an adaptor protein in the cytosolic signal transduction cascade events triggered by Toll receptor activation. Within the Toll pathway, ECSIT regulates MEKK1 processing for activation of NF-κB, a major event leading to initiation of the innate immune response. In the mitochondria, ECSIT interacts with NDUFAF1 and assists in the formation of NADH:ubiquinone oxidoreductase (complex I), an extremely complicated multiprotein complex located in the inner mitochondrial membrane that functions in the transport of electrons from NADH to ubiquinone. Knockdown of ECSIT results in severely impaired complex I assembly and disturbed mitochondrial function. There are two isoforms of ECSIT that are produced as a result of alternative splicing events.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ECSIT (human) mapping to 19p13.2; Ecsit (mouse) mapping to 9 A3.

**SOURCE**

ECSIT (V-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ECSIT 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-79473 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

ECSIT (V-14) is recommended for detection of ECSIT of mouse, rat and 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).

ECSIT (V-14) is also recommended for detection of ECSIT in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ECSIT siRNA (h): sc-77224, ECSIT siRNA (m): sc-77225, ECSIT shRNA Plasmid (h): sc-77224-SH, ECSIT shRNA Plasmid (m): sc-77225-SH, ECSIT shRNA (h) Lentiviral Particles: sc-77224-V and ECSIT shRNA (m) Lentiviral Particles: sc-77225-V.

Molecular Weight of ECSIT isoforms: 45/50 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

**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-2035 (dilution range: 1:2000-1:500), 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.

**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.