

## ECSIT (T-25): sc-133535

### 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 $\kappa$ B, 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

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- Moustakas, A. and Heldin, C.H. 2003. ECSIT-ement on the crossroads of Toll and BMP signal transduction. *Genes Dev.* 17: 2855-2859.
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### CHROMOSOMAL LOCATION

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

### SOURCE

ECSIT (T-25) is a Protein A purified rabbit polyclonal antibody raised against synthetic ECSIT peptide of human origin.

### PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

### APPLICATIONS

ECSIT (T-25) 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), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

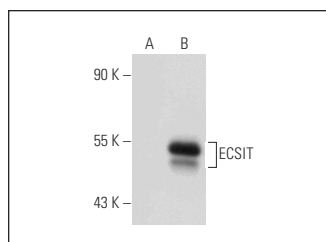
Molecular Weight of ECSIT: 45/50 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, Y79 cell lysate: sc-2240 or ECSIT (m2): 293T Lysate: sc-119911.

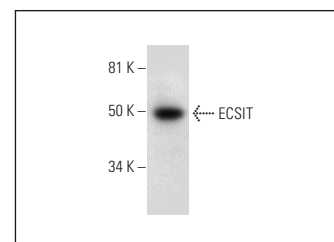
### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

### DATA



ECSIT (T-25): sc-133535. Western blot analysis of ECSIT expression in non-transfected: sc-117752 (A) and mouse ECSIT transfected: sc-119911 (B) 293T whole cell lysates.



ECSIT (T-25): sc-133535. Western blot analysis of ECSIT expression in Y79 whole cell lysate.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.