

SCYL3 (T-18): sc-165440

BACKGROUND

SCYL3 (SCY1-like 3), also known as protein-associating with the carboxyl-terminal domain of ezrin, is a 742 amino acid protein that belongs to the protein kinase superfamily. The SCYL3 protein contains an N-terminal myristoylation consensus sequence, followed by a protein kinase domain, two tandemly arrayed HEAT motifs composed of pairs of antiparallel α helices, and a C-terminal ezrin-binding domain. The SCYL3 protein may be phosphorylated. Ubiquitously expressed, the SCYL3 protein colocalizes with ezrin, actin and HCAM in lamellipodia. The SCYL3 protein may be myristoylated, which may target SCYL3 to Golgi compartment. Existing as 2 alternatively spliced isoforms, the SCYL3 gene contains 14 exons, is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish, fruit fly and mosquito, and maps to human chromosome 1q24.2.

REFERENCES

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3. Maurer-Stroh, S., Gouda, M., Novatchkova, M., Schleiffer, A., Schneider, G., Sirota, F.L., Wildpaner, M., Hayashi, N. and Eisenhaber, F. 2004. MYRbase: analysis of genome-wide glycine myristoylation enlarges the functional spectrum of eukaryotic myristoylated proteins. *Genome Biol.* 5: R21.
4. Weise, A., Starke, H., Mrasek, K., Claussen, U. and Liehr, T. 2005. New insights into the evolution of chromosome 1. *Cytogenet. Genome Res.* 108: 217-222.
5. Gregory, S.G., Barlow, K.F., McLay, K.E., Kaul, R., Swarbreck, D., Dunham, A., Scott, C.E., Howe, K.L., Woodfine, K., Spencer, C.C., Jones, M.C., Gillson, C., Searle, S., Zhou, Y., Kokocinski, F., et al. 2006. The DNA sequence and biological annotation of human chromosome 1. *Nature* 441: 315-321.

CHROMOSOMAL LOCATION

Genetic locus: SCYL3 (human) mapping to 1q24.2; Scyl3 (mouse) mapping to 1 H2.2.

SOURCE

SCYL3 (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SCYL3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165440 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

SCYL3 (T-18) is recommended for detection of SCYL3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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); non cross-reactive with SCYL1 or SCYL2.

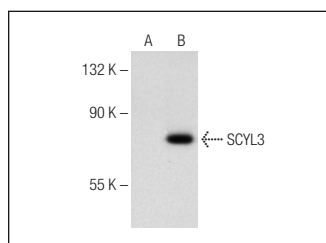
SCYL3 (T-18) is also recommended for detection of SCYL3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SCYL3 siRNA (h): sc-88316, SCYL3 siRNA (m): sc-153280, SCYL3 shRNA Plasmid (h): sc-88316-SH, SCYL3 shRNA Plasmid (m): sc-153280-SH, SCYL3 shRNA (h) Lentiviral Particles: sc-88316-V and SCYL3 shRNA (m) Lentiviral Particles: sc-153280-V.

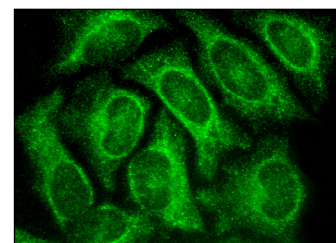
Molecular Weight of SCYL3 isoforms 1/2: 83/77 kDa.

Positive Controls: SCYL3 (m): 293T Lysate: sc-123396.

DATA



SCYL3 (T-18): sc-165440. Western blot analysis of SCYL3 expression in non-transfected (sc-117752 (A)) and mouse SCYL3 transfected: sc-123396 (B) 293T whole cell lysates.



SCYL3 (T-18): sc-165440. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **SCYL3 (G-8): sc-398328** or **SCYL3 (G-9): sc-393945**, our highly recommended monoclonal alternatives to SCYL3 (T-18).