

# Sel-1L3 (Y-14): sc-164765

## BACKGROUND

Sel-1L3 (sel-1 suppressor of lin-12-like 3) is a 1,132 amino acid single-pass membrane protein that contains 8 Sel1-like repeats. Existing as three alternatively spliced isoforms, the Sel-1L3 gene is conserved in chimpanzee, canine, mouse, rat, chicken and zebrafish, and maps to human chromosome 4p15.2. Several independent linkage studies have identified chromosome 4p15–p16 as a putative region of susceptibility for bipolar disorder, schizophrenia and related phenotypes. Representing approximately 6% of the human genome, chromosome 4 contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

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## CHROMOSOMAL LOCATION

Genetic locus: SEL1L3 (human) mapping to 4p15.2; Sel1L3 (mouse) mapping to 5 C1.

## SOURCE

Sel-1L3 (Y-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Sel-1L3 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-164765 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Sel-1L3 (Y-14) is recommended for detection of Sel-1L3 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); non cross-reactive with Sel-1L and Sel-1L2.

Sel-1L3 (D-17) is also recommended for detection of Sel-1L3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Sel-1L3 siRNA (h): sc-88873, Sel-1L3 siRNA (m): sc-108703, Sel-1L3 shRNA Plasmid (h): sc-88873-SH, Sel-1L3 shRNA Plasmid (m): sc-108703-SH, Sel-1L3 shRNA (h) Lentiviral Particles: sc-88873-V and Sel-1L3 shRNA (m) Lentiviral Particles: sc-108703-V.

Molecular Weight of Sel-1L3 isoforms 1/2/3: 129/125/112 kDa.

## 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-2033 (dilution range: 1:2000-1:5000), 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.

## 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.