



## LOC646629 (K-17): sc-84937

### BACKGROUND

The gene encoding human LOC646629 maps to chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases, representing about 2.5% of total DNA in cells. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas. Also, three chromosomal abnormalities result from meiotic nondisjunction events of chromosome 18: Monosomy 18p, Trisomy 18 (also known as Edwards syndrome) and Tetrasomy 18p. The LOC646629 gene product has been provisionally designated LOC646629 pending further characterization.

### REFERENCES

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- Kohan, R. and Bower, C. 2008. Improving the health care experiences of families given the prenatal diagnosis of Trisomy 18. *J. Perinatol.* 28: 719.
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### CHROMOSOMAL LOCATION

Genetic locus: LOC646629 (human) mapping to 18q11.2.

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

### SOURCE

LOC646629 (K-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of LOC646629 of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84937 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-84937 X, 100 µg/0.1 ml.

### APPLICATIONS

LOC646629 (K-17) is recommended for detection of LOC646629 of 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).

Suitable for use as control antibody for LOC646629 siRNA (h): sc-75534, LOC646629 shRNA Plasmid (h): sc-75534-SH and LOC646629 shRNA (h) Lentiviral Particles: sc-75534-V.

LOC646629 (K-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of LOC646629: 44 kDa.

### 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™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### RESEARCH USE

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