



## LINE-1 (S-19): sc-50585

### BACKGROUND

Mammalian LINE-1 (L1) elements belong to the superfamily of autonomously replicating retrotransposable elements that lack the long terminal repeated (LTR) sequences typical of retroviruses and retroviral-like retrotransposons. The non-LTR superfamily is ubiquitous in nature and constitutes 20% or more of some mammalian genomes, and about 5% of the human genome. Therefore, Line-1 elements presumably have had a profound, perhaps defining, effect on the evolution, structure and function of mammalian genomes. Line-1 elements contain regulatory signals and encode two proteins: an RNA-binding protein and an integrase-replicase, as the retrovirus harbors both endonuclease and reverse transcriptase capabilities.

### REFERENCES

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### SOURCE

LINE-1 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LINE-1 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-50585 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

LINE-1 (S-19) is recommended for detection of LINE-1 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 LINE-1 siRNA (h): sc-60936.

Molecular Weight of LINE-1: 147 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.