

## Bex5 (E-19): sc-241904

### BACKGROUND

Bex5 (brain-expressed X-linked protein 5), also known as nerve growth factor receptor-associated protein 2 or NGFRAP1-like protein 1, is a 111 amino acid protein that belongs to the Bex family. Bex5, like other members of the Bex gene family, contains three exons, with the third exon containing the entire open reading frame and the majority of the transcript. Bex5 localizes to cytoplasm and is widely expressed at low levels, with highest expression in liver; however, Bex5 is expressed at lower levels than other Bex genes. Bex5 has been identified in monkey but not in rodents, suggesting that mice lost the Bex5 gene during evolution after mice and humans diverged. The region of the mouse X chromosome that corresponds to the region of the human X chromosome where Bex5 is located is truncated in mice, lending credence to this theory. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: BEX5 (human) mapping to Xq22.1.

### SOURCE

Bex5 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Bex5 of human origin.

### STORAGE

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

### 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-241904 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

Bex5 (E-19) is recommended for detection of Bex5 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 Bex5 siRNA (h): sc-91288, Bex5 shRNA Plasmid (h): sc-91288-SH and Bex5 shRNA (h) Lentiviral Particles: sc-91288-V.

Molecular Weight of Bex5: 13 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (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) 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<sup>™</sup> Mounting Medium: sc-24941.

### 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.