



Tachykinin 4 (K-14): sc-47440

BACKGROUND

The tachykinin family consists of amidated neuropeptides that share a carboxy-terminal sequence (Phe-X-Gly-Leu-Met-NH₂). They are widely distributed within the peripheral and central nervous system and play a role as excitatory neurotransmitters, which are mediated through three types of receptors designated NK-1R, NK-2R and NK-3R. Tachykinin 4, also designated preprotachykinin C or PPT-C, encodes hemokinin-1 (HK-1), endokinin A (EKA), endokinin B (EKB) and endokinin D (EKD). These peptides have a widespread peripheral distribution and exhibit significant potency for NK-1R. hemokinin-1 is similar in potency to Substance P (SP). Both peptides stimulate IFN- γ production and are expressed at sites of chronic inflammation, where HK-1 is thought to be an important regulator of B cell development.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TAC4 (human) mapping to 17q21.33; (mouse) mapping to .

SOURCE

Tachykinin 4 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Tachykinin 4 of human origin.

RESEARCH USE

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

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-47440 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Tachykinin 4 (K-14) is recommended for detection of Tachykinin 4 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 Tachykinin 4 siRNA (h): sc-61635.

Molecular Weight of Tachykinin 4: 78 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.

PROTOCOLS

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