

Inhibin β -E (D-13): sc-68565

BACKGROUND

Inhibin β -E, also known as INHBE, is a 350 amino acid secreted protein that belongs to the TGF β superfamily and exists as either a homodimer or a heterodimer via association with other Inhibin subunits. Functioning to inhibit the secretion of follitropin by the pituitary gland, Inhibin β -E is involved in a variety of events throughout the body, including germ cell development, nerve cell survival, insulin secretion and bone growth. The gene encoding Inhibin β -E maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: INHBE (human) mapping to 12q13.3; Inhbe (mouse) mapping to 10 D3.

SOURCE

Inhibin β -E (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Inhibin β -E 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 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-68565 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Inhibin β -E (D-13) is recommended for detection of Inhibin β -E 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).

Inhibin β -E (D-13) is also recommended for detection of Inhibin β -E in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Inhibin β -E siRNA (h): sc-75338, Inhibin β -E siRNA (m): sc-75339, Inhibin β -E shRNA Plasmid (h): sc-75338-SH, Inhibin β -E shRNA Plasmid (m): sc-75339-SH, Inhibin β -E shRNA (h) Lentiviral Particles: sc-75338-V and Inhibin β -E shRNA (m) Lentiviral Particles: sc-75339-V.

Molecular Weight of Inhibin β -E: 39 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.

RESEARCH USE

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

PROTOCOLS

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