

Dhh (M-20): sc-1197

BACKGROUND

The *Drosophila* segment polarity gene hedgehog (hh) encodes a precursor protein which undergoes autocleavage to generate amino and carboxy terminal peptides. Both proteins are secreted and appear to function in embryonic and imaginal disc patterning. Several vertebrate homologs of *Drosophila* hh have been identified. These include Sonic hedgehog (Shh) (alternatively designated Vhh-1), Desert hedgehog (Dhh) and Indian hedgehog (Ihh). Each contain amino terminal signal peptides and apparently function as secreted proteins involved in the mediation of various cell-cell interactions. Shh resembles *Drosophila* hh in that it is processed to generate an amino terminal secreted peptide that is retained at or near the cell surface and a carboxy terminal glycosylated more diffusible peptide.

CHROMOSOMAL LOCATION

Genetic locus: DHH (human) mapping to 12q13.12; Dhh (mouse) mapping to 15 F1.

SOURCE

Dhh (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Dhh of mouse 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-1197 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Dhh (M-20) is recommended for detection of the C-terminal subunit of Dhh of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Dhh (M-20) is also recommended for detection of the C-terminal subunit of Dhh in additional species, including equine and bovine.

Suitable for use as control antibody for Dhh siRNA (h): sc-37208, Dhh siRNA (m): sc-37209, Dhh shRNA Plasmid (h): sc-37208-SH, Dhh shRNA Plasmid (m): sc-37209-SH, Dhh shRNA (h) Lentiviral Particles: sc-37208-V and Dhh shRNA (m) Lentiviral Particles: sc-37209-V.

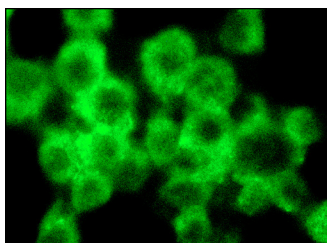
Molecular Weight of Dhh: 42 kDa.

Positive Controls: F9 cell lysate: sc-2245 or rat brain extract: sc-2392.

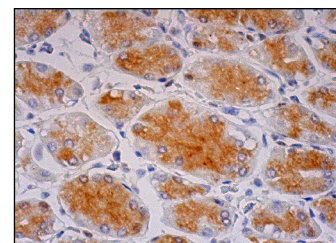
RESEARCH USE

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

DATA



Dhh (M-20): sc-1197. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization.



Dhh (M-20): sc-1197. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lower stomach tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

1. Thomas, M.K., et al. 2000. Hedgehog signaling regulation of Insulin production by pancreatic β -cells. *Diabetes* 49: 2039-2047.
2. Nott, R.L., et al. 2002. Comparison of hedgehog and patched 1 protein expression in the cranial sutures of craniosynostotic and wild-type rabbits. *Plast. Reconstr. Surg.* 110: 515-522.
3. Nott, R.L., et al. 2002. Changes in the protein expression of hedgehog and patched 1 in perisutural tissues induced by cranial distraction. *Plast. Reconstr. Surg.* 110: 523-532.
4. Pola, R., et al. 2003. Postnatal recapitulation of embryonic hedgehog pathway in response to skeletal muscle ischemia. *Circulation* 108: 479-485.

PROTOCOLS

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

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Try **Dhh (F-9): sc-271168** or **Dhh (G-9): sc-133116**, our highly recommended monoclonal alternatives to Dhh (M-20).