

Epigen (N-16): sc-46941

BACKGROUND

Epigen is an epithelial mitogen that belongs to the EGF ligand family for ErbB receptors. Comprising 152 amino acids, the Epigen protein contains 2 hydrophobic regions corresponding to a putative signal sequence and transmembrane domain, which flank a core of amino acids encompassing 6 cysteine residues and 2 putative N-linked glycosylation sites. In epithelial cells, Epigen stimulates the phosphorylation of ErbB-1 and mitogen-activated protein kinases and also activates a reporter gene containing enhancer sequences present in the c-fos promoter. Epigen also stimulates the proliferation of HaCaT cells. With its ability to promote the growth of epithelial cells, Epigen may constitute a novel molecular target for wound-healing therapy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EPGN (human) mapping to 4q13.3.

SOURCE

Epigen (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Epigen 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-46941 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

Epigen (N-16) is recommended for detection of Epigen 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).

Epigen (N-16) is also recommended for detection of Epigen in additional species, including equine.

Suitable for use as control antibody for Epigen siRNA (h): sc-60591, Epigen shRNA Plasmid (h): sc-60591-SH and Epigen shRNA (h) Lentiviral Particles: sc-60591-V.

Molecular Weight of Epigen: 15 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.