

elafin (N-20): sc-19756

BACKGROUND

Elafin, also known as elastase-specific inhibitor (ESI) or skin-derived anti-leukoproteinase (SKALP), is a low molecular weight elastase inhibitor derived from psoriatic skin. Elafin is found in the epidermis of several inflammatory skin diseases, but not in normal human epidermis. It is found in the urine of psoriatic patients, and immunohistochemical studies show that elafin is found in the suprabasal differentiated keratinocytes of psoriatic epidermis. In inflamed skin, elafin exists both as a free form and as an immobilized form covalently attached to the cornified envelopes by transglutaminase cross-linking. Although there is no allelic association between pustular psoriasis (or psoriasis in general) and polymorphism of the PI 3 gene, a decrease of elafin is found in lesional skin of patients with pustular psoriasis compared with plaque-type psoriasis. The gene which encodes elafin maps to human chromosome 20q13.12.

CHROMOSOMAL LOCATION

Genetic locus: PI3 (human) mapping to 20q13.12.

SOURCE

elafin (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of elafin 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-19756 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

elafin (N-20) is recommended for detection of elafin of 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).

Suitable for use as control antibody for elafin siRNA (h): sc-42866, elafin shRNA Plasmid (h): sc-42866-SH and elafin shRNA (h) Lentiviral Particles: sc-42866-V.

Molecular Weight of preproelafin: 11 kDa.

Molecular Weight of elafin precursor: 11 kDa.

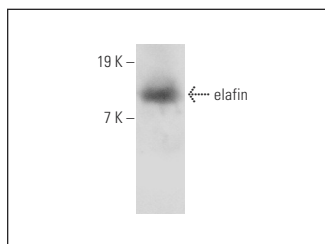
Molecular Weight of mature elafin: 6 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or human placenta extract: sc-363772.

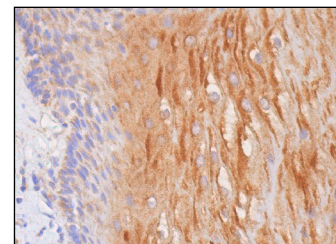
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



elafin (N-20): sc-19756. Western blot analysis of elafin expression in human placenta tissue extract.



elafin (N-20): sc-19756. Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing cytoplasmic staining of squamous epithelial cells.

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.



Try **elafin (H-2): sc-398075**, our highly recommended monoclonal alternative to elafin (N-20).