EMMPRIN (N-19): sc-9752

SANTA CRUZ® BIOTECHNOLOGY

The Power to Question

BACKGROUND

Extracellular matrix metalloproteinase inducer, EMMPRIN (also designated basigin or CD147), is involved in the regulation of matrix remodeling at the epidermal-dermal interface. EMMPRIN stimulates the production of interstitial collagenase, gelatinase A, stromelysin-1 and various metalloproteinases (MMPs) by fibroblasts. These enzymes, which are typically increased during tissue degradation and wound healing, are important factors in cancer invasion and metastasis.

CHROMOSOMAL LOCATION

Genetic locus: BSG (human) mapping to 19p13.3.

SOURCE

EMMPRIN (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of EMMPRIN 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-9752 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EMMPRIN (N-19) is recommended for detection of EMMPRIN 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).

EMMPRIN (N-19) is also recommended for detection of EMMPRIN in additional species, including bovine.

Suitable for use as control antibody for EMMPRIN siRNA (h): sc-35298, EMMPRIN shRNA Plasmid (h): sc-35298-SH and EMMPRIN shRNA (h) Lentiviral Particles: sc-35298-V.

Molecular Weight of EMMPRIN: 55 kDa.

Positive Controls: WI-38 whole cell lysate: sc-364260, A-431 whole cell lysate: sc-2201 or SK-MEL-28 cell lysate: sc-2236.

STORAGE

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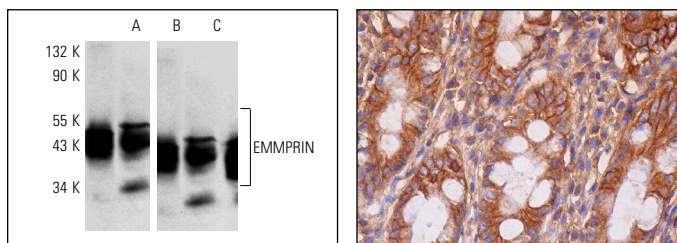
PROTOCOLS

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

RESEARCH USE

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

DATA

EMMPRIN (N-19): sc-9752. Western blot analysis of EMMPRIN expression in A-431 (**A**), SK-MEL-28 (**B**) and WI-38 (**C**) whole cell lysates.

EMMPRIN Antibody (N-19): sc-9752. Immunoperoxidase staining of formalin fixed, paraffin-embedded human rectum tissue showing membrane and cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

1. Davidson, B., et al. 2003. EMMPRIN (extracellular matrix metalloproteinase inducer) is a novel marker of poor outcome in serous ovarian carcinoma. Clin. Exp. Metastasis 20: 161-169.

2. Sidhu, S.S., et al. 2004. The microvesicle as a vehicle for EMMPRIN in tumor-stromal interactions. Oncogene 23: 956-963.

3. Chauhan, M., et al. 2006. Adrenomedullin 2 antagonist infusion to rats during midgestation causes fetoplacental growth restriction through apoptosis. Biol. Reprod. 75: 940-947.

4. Gallagher, S.M., et al. 2007. Monocarboxylate transporter 4 regulates maturation and trafficking of CD147 to the plasma membrane in the metastatic breast cancer cell line MDA-MB-231. Cancer Res. 67: 4182-4189.

5. Hanata, K., et al. 2007. Soluble EMMPRIN (extra-cellular matrix metalloproteinase inducer) stimulates the migration of HEp-2 human laryngeal carcinoma cells, accompanied by increased MMP-2 production in fibroblasts. Arch. Histol. Cytol. 70: 267-277.

6. Szymanowska, M., et al. 2009. EMMPRIN (basigin/CD147) expression is not correlated with MMP activity during adult mouse mammary gland development. J. Cell. Biochem. 106: 52-62.

MONOS Satisfation Guaranteed

Try **EMMPRIN (8D6): sc-21746** or **EMMPRIN (F-5): sc-374101**, our highly recommended monoclonal alternatives to EMMPRIN (N-19). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **EMMPRIN (8D6): sc-21746**.