

EMMPRIN (H-200): sc-13976

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.

REFERENCES

1. Paterson, D.J., et al. 1987. Antigens of activated rat T lymphocytes including a molecule of 50,000 Mr detected only on CD4 positive T blasts. *Mol. Immunol.* 24: 1281-1290.
2. Miyauchi, T., et al. 1990. Basigin, a new, broadly distributed member of the immunoglobulin superfamily, has strong homology with both the immunoglobulin V domain and the β -chain of major histocompatibility complex class II antigen. *J. Biochem.* 107: 316-323.
3. Biswas, C., et al. 1995. The human tumor cell-derived collagenase stimulatory factor (renamed EMMPRIN) is a member of the immunoglobulin superfamily. *Cancer Res.* 55: 434-439.

CHROMOSOMAL LOCATION

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

SOURCE

EMMPRIN (H-200) is a rabbit polyclonal antibody raised against amino acids 1-200 mapping at the N-terminus of EMMPRIN of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

EMMPRIN (H-200) 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 μ g per 100-500 μ g 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 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: HeLa whole cell lysate: sc-2200, A-431 whole cell lysate: sc-2201 or SK-MEL-28 cell lysate: sc-2236.

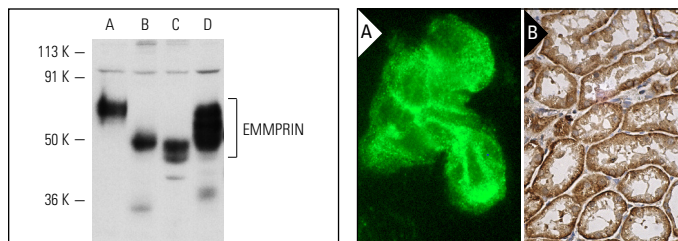
RESEARCH USE

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

STORAGE

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

DATA



EMMPRIN (H-200): sc-13976. Western blot analysis of EMMPRIN expression in A-431 (A), SK-MEL-28 (B), WI-38 (C) and HeLa (D) whole cell lysates.

EMMPRIN (H-200): sc-13976. Immunofluorescence staining of methanol-fixed A-431 cells showing membrane localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing basement membrane and cytoplasmic staining of cells in tubules (B).

SELECT PRODUCT CITATIONS

1. Ferrario, A., et al. 2004. The matrix metalloproteinase inhibitor prinomastat enhances photodynamic therapy responsiveness in a mouse tumor model. *Cancer Res.* 64: 2328-2332.
2. Graham, C., et al. 2007. Expression and localization of monocarboxylate transporters and sodium/proton exchangers in bovine rumen epithelium. *Am. J. Physiol. Regul. Integr. Comp. Physiol.* 292: R997-R1007.
3. Zavadzkas, J.A., et al. 2008. Cardiac-restricted overexpression of extracellular matrix metalloproteinase inducer causes myocardial remodeling and dysfunction in aging mice. *Am. J. Physiol. Heart Circ. Physiol.* 295: 1394-1402.
4. Serafini, P.C., et al. 2009. Endometrial claudin-4 and leukemia inhibitory factor are associated with assisted reproduction outcome. *Reprod. Biol. Endocrinol.* 7: 30.
5. Tang, T., et al. 2015. Study on extracellular matrix metalloproteinase inducer and human epidermal growth factor receptor-2 protein expression in papillary thyroid carcinoma using a quantum dot-based immunofluorescence technique. *Exp. Ther. Med.* 9: 1331-1335.

PROTOCOLS

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



Try **EMMPRIN (8D6): sc-21746** or **EMMPRIN (F-5): sc-374101**, our highly recommended monoclonal alternatives to EMMPRIN (H-200). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **EMMPRIN (8D6): sc-21746**.