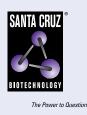
# SANTA CRUZ BIOTECHNOLOGY, INC.

# EMMPRIN (OX114): sc-53064



#### 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

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- 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  $\beta$  chain of major histocompatibility complex class II antigen. J. Biochem. 107: 316-323.
- 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.
- DeCastro, R., et al. 1996. Human keratinocytes express EMMPRIN, an extracellular matrix metalloproteinase inducer. J. Invest. Dermatol. 106: 1260-1265.
- Guo, H., et al. 1997. Stimulation of matrix metalloproteinase production by recombinant extracellular matrix metalloproteinase inducer from transfected Chinese hamster ovary cells. J. Biol. Chem. 272: 24-27.
- Guo, H., et al. 1998. Characterization of the gene for human EMMPRIN, a tumor cell surface inducer of matrixmetalloproteinases. Gene 220: 99-108.
- Lim, M., et al. 1998. Tumor-derived EMMPRIN (extracellular matrix metalloproteinase inducer) stimulates collagenase transcription through MAPK p38. FEBS Lett. 441: 88-92.
- Kahari, V.M. and Saarialho-Kere, U. 1999. Matrix metalloproteinases and their inhibitors in tumour growth and invasion. Ann. Med. 31: 34-45.

## **CHROMOSOMAL LOCATION**

Genetic locus: BSG (human) mapping to 19p13.3; Bsg (mouse) mapping to 10 C1.

## SOURCE

EMMPRIN (OX114) is a rat monoclonal antibody raised against EMMPRIN of mouse origin.

## PRODUCT

Each vial contains 200  $\mu g~lgG_1$  in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

EMMPRIN (0X114) is available conjugated to either phycoerythrin (sc-53064 PE) or fluorescein (sc-53064 FITC), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM.

## **APPLICATIONS**

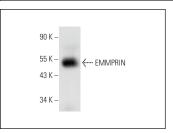
EMMPRIN (0X114) is recommended for detection of EMMPRIN of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffinembedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells).

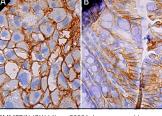
Suitable for use as control antibody for EMMPRIN siRNA (h): sc-35298, EMMPRIN siRNA (m): sc-35299, EMMPRIN siRNA (r): sc-156103, EMMPRIN shRNA Plasmid (h): sc-35298-SH, EMMPRIN shRNA Plasmid (m): sc-35299-SH, EMMPRIN shRNA Plasmid (r): sc-156103-SH, EMMPRIN shRNA (h) Lentiviral Particles: sc-35298-V, EMMPRIN shRNA (m) Lentiviral Particles: sc-35299-V and EMMPRIN shRNA (r) Lentiviral Particles: sc-156103-V.

Molecular Weight of EMMPRIN: 55 kDa.

Positive Controls: 3611-RF whole cell lysate: sc-2215, HL-60 whole cell lysate: sc-2209 or RAW 264.7 whole cell lysate: sc-2211.

## DATA





EMMPRIN (0X114): sc-53064. Western blot analysis of EMMPRIN expression in HL-60 whole cell lysate.

EMMPRIN (0X114): sc-53064. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse placenta tissue showing membrane staining of tropholbastic cells and decidual cells (**A**). Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse colon tissue showing membrane staining of glandular cells (**B**).

## **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **RESEARCH USE**

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

#### **PROTOCOLS**

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



See **EMMPRIN (B-5): sc-46700** for EMMPRIN antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor<sup>®</sup> 488, 546, 594, 647, 680 and 790.