

# EMMPRIN (36.3G4): sc-53582

## 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 M<sub>r</sub> 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  $\beta$  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 (36.3G4) is a mouse monoclonal antibody raised against HEK293 cells of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG $\kappa$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

EMMPRIN (36.3G4) is available conjugated to either phycoerythrin (sc-53582 PE) or fluorescein (sc-53582 FITC), 200  $\mu$ g/ml, for IF, IHC(P) and FCM.

## APPLICATIONS

EMMPRIN (36.3G4) 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  $\mu$ 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) 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 shRNA Plasmid (h): sc-35298-SH and EMMPRIN shRNA (h) Lentiviral Particles: sc-35298-V.

Molecular Weight of EMMPRIN: 55 kDa.

Positive Controls: H4 cell lysate: sc-2408, A-431 whole cell lysate: sc-2201 or SK-MEL-28 cell lysate: sc-2236.

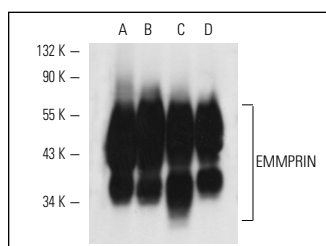
## RESEARCH USE

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

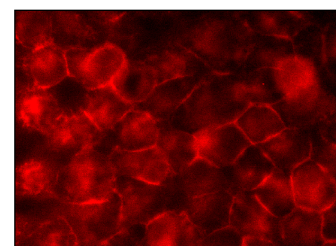
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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 m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

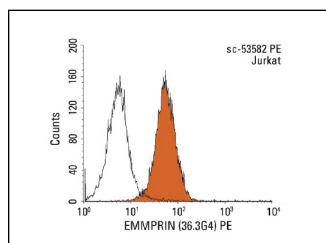
## DATA



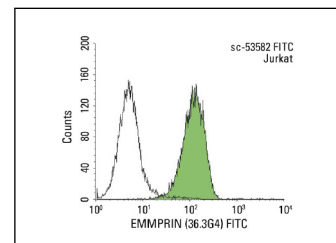
EMMPRIN (36.3G4): sc-53582. Western blot analysis of EMMPRIN expression in WI 38 (A), A-431 (B), SK-MEL-28 (C) and IL-ACS (D) whole cell lysates.



EMMPRIN (36.3G4): sc-53582. Immunofluorescence staining of methanol-fixed HeLa cells showing membrane localization.



EMMPRIN (36.3G4) PE: sc-53582 PE. FCM analysis of Jurkat cells. Black line histogram represents the isotype control, normal mouse IgG $\gamma_1$ : sc-2866.



EMMPRIN (36.3G4) FITC: sc-53582 FITC. FCM analysis of Jurkat cells. Black line histogram represents the isotype control, normal mouse IgG $\gamma_1$ : sc-2855.

## SELECT PRODUCT CITATIONS

1. Rucci, N., et al. 2010. Receptor activator of NF $\kappa$ B ligand enhances breast cancer-induced osteolytic lesions through upregulation of extracellular matrix metalloproteinase inducer/CD147. *Cancer Res.* 70: 6150-6160.

## STORAGE

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



See **EMMPRIN (B-5): sc-46700** for EMMPRIN antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647.