SANTA CRUZ BIOTECHNOLOGY, INC.

# EMMPRIN (T-18): sc-9756

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.

## REFERENCES


1. 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.
2. 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 (mouse) mapping to 10 C1.

## SOURCE

EMMPRIN (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of EMMPRIN of mouse 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-9756 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

EMMPRIN (T-18) is recommended for detection of EMMPRIN of mouse and rat 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 EMMPRIN siRNA (m): sc-35299, EMMPRIN shRNA Plasmid (m): sc-35299-SH and EMMPRIN shRNA (m) Lentiviral Particles: sc-35299-V.

Molecular Weight of EMMPRIN: 55 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211, PC-12 cell lysate: sc-2250 or 3611-RF whole cell lysate: sc-2215.

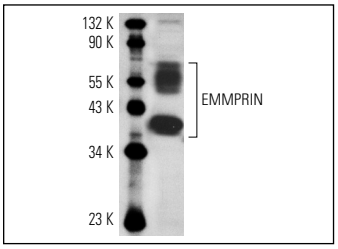
## STORAGE

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

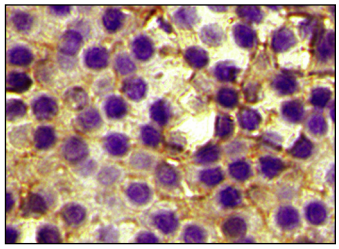
## RESEARCH USE

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

## DATA




EMMPRIN (T-18): sc-9756. Western blot analysis of EMMPRIN expression in 3611-RF whole cell lysate.



EMMPRIN (T-18): sc-9756. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse testis showing membrane localization.

## 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. Zhou, S., et al. 2005. CD147 is a regulatory subunit of the γ-secretase complex in Alzheimer's disease β-Amyloid-peptide production. Proc. Natl. Acad. Sci. USA 102: 7499-7504.
3. Kleene, R., et al. 2007. Prion protein regulates glutamate-dependent lactate transport of astrocytes. J. Neurosci. 27: 12331-12340.
4. 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.


## PROTOCOLS

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