

EMMPRIN (G-19): sc-9757

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: 1281-90. PMID : 2828930
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.

CHROMOSOMAL LOCATION

Genetic locus: Bsg (mouse) mapping to 10 C1.

SOURCE

EMMPRIN (G-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of EMMPRIN of mouse origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9757 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EMMPRIN (G-19) 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 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 (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, MH-S whole cell lysate: sc-364785 or 3611-RF whole cell lysate: sc-2215.

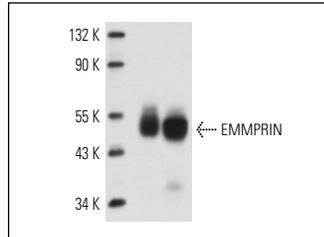
STORAGE

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

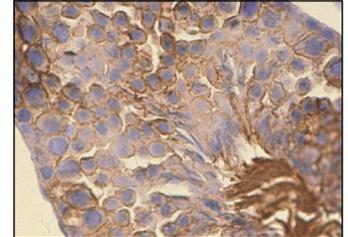
RESEARCH USE

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

DATA



EMMPRIN (G-19): sc-9757. Western blot analysis of EMMPRIN expression in MH-S (A) and RAW 264.7 (B) whole cell lysates.



EMMPRIN (G-19): sc-9757. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse testis showing membrane localization.

SELECT PRODUCT CITATIONS

1. Seko, Y., et al. 2004. Hypoxia followed by reoxygenation induces secretion of cyclophilin A from cultured rat cardiac myocytes. *Biochem. Biophys. Res. Commun.* 317: 162-168.
2. Schwab, W., et al. 2007. Immunocytochemical and biochemical detection of EMMPRIN in the rat tooth germ: differentiation-dependent coexpression with MMPs and co-localization with caveolin-1 in membrane rafts of dental epithelial cells. *Histochem. Cell Biol.* 128: 195-203.
3. 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.
4. Xie, M., et al. 2010. EMMPRIN (basigin/CD147) is involved in the morphogenesis of tooth germ in mouse molars. *Histochem. Cell Biol.* 133: 585-594.
5. Fu, T.Y., et al. 2011. Let-7b-mediated suppression of basigin expression and metastasis in mouse melanoma cells. *Exp. Cell Res.* 317: 445-451.
6. Attia, M., et al. 2011. Extracellular matrix metalloproteinase inducer (EMMPRIN/CD147) as a novel regulator of myogenic cell differentiation. *J. Cell. Physiol.* 226: 141-149.
7. Maekawa, M., et al. 2011. Localisation of RA175 (Cadm1), a cell adhesion molecule of the immunoglobulin superfamily, in the mouse testis, and analysis of male infertility in the RA175-deficient mouse. *Andrologia* 43: 180-188.
8. Chen, H., et al. 2011. CD147 is required for matrix metalloproteinases-2 production and germ cell migration during spermatogenesis. *Mol. Hum. Reprod.* 17: 405-414.


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Try **EMMPRIN (B-5): sc-46700**, our highly recommended monoclonal alternative to EMMPRIN (G-19). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **EMMPRIN (B-5): sc-46700**.