

EMMPRIN (K-20): sc-9753

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 (human) mapping to 19p13.3.

SOURCE

EMMPRIN (K-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-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.

Blocking peptide available for competition studies, sc-9753 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EMMPRIN (K-20) 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) 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 WI-38 whole cell lysate.

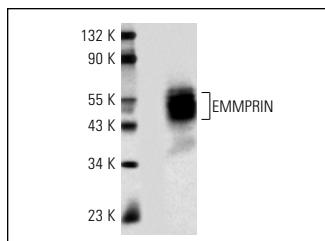
STORAGE

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 (K-20): sc-9753. Western blot analysis of EMMPRIN expression in WI-38 whole cell lysate.

SELECT PRODUCT CITATIONS

1. Sluijter, J.P., et al. 2006. Matrix metalloproteinase 2 is associated with stable and matrix metalloproteinases 8 and 9 with vulnerable carotid atherosclerotic lesions: a study in human endarterectomy specimen pointing to a role for different extracellular matrix metalloproteinase inducer glycosylation forms. *Stroke* 37: 235-239.
2. van Keulen, J.K., et al. 2007. Levels of extra domain A containing fibronectin in human atherosclerotic plaques are associated with a stable plaque phenotype. *Atherosclerosis* 195: e83-e91.
3. Morikawa, A., et al. 2008. Selective progesterone receptor modulator asoprisnil down-regulates collagen synthesis in cultured human uterine leiomyoma cells through up-regulating extracellular matrix metalloproteinase inducer. *Hum. Reprod.* 23: 944-951.
4. Xu, Q., et al. 2008. Progesterone receptor modulator CDB-2914 induces extracellular matrix metalloproteinase inducer in cultured human uterine leiomyoma cells. *Mol. Hum. Reprod.* 14: 181-191.
5. Huet, E., et al. 2008. Extracellular matrix metalloproteinase inducer/CD147 promotes myofibroblast differentiation by inducing α -smooth muscle actin expression and collagen gel contraction: implications in tissue remodeling. *FASEB J.* 22: 1144-1154.
6. Bot, P.T., et al. 2009. Increased expression of the transforming growth factor- β signaling pathway, endoglin, and early growth response-1 in stable plaques. *Stroke* 40: 439-447.
7. Izumi, H., et al. 2011. Monocarboxylate transporters 1 and 4 are involved in the invasion activity of human lung cancer cells. *Cancer Sci.* 102: 1007-1013.


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Try **EMMPRIN (8D6): sc-21746** or **EMMPRIN (F-5): sc-374101**, our highly recommended monoclonal alternatives to EMMPRIN (K-20). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **EMMPRIN (8D6): sc-21746**.