

EMAP II (h2): 293T Lysate: sc-170463

BACKGROUND

Endothelial monocyte-activating polypeptide (EMAP II), also known as small inducible cytokine subfamily E, member 1 (SCYE1), is a chemoattractant cytokine for monocytes and granulocytes that is inducible by apoptosis. TNF α treatment of murine meth A fibrosarcomas and B16 melanomas upregulates EMAP II mRNA production. The release of this cytokine renders the tumor-associated vasculature sensitive to tumor necrosis factor. EMAP II mRNA translates as a precursor protein, proEMAP II, which undergoes proteolysis to become the mature, biologically active cytokine. ProEMAP II may function in binding RNA as part of the tRNA synthetase complex in normal cells and in stimulating inflammatory responses after proteolytic cleavage in tumor cells.

REFERENCES

1. Knies, U.E., et al. 2000. Expression of EMAP II in the developing and adult mouse. *Apoptosis* 5: 141-151.
2. Brabeck, C., et al. 2002. Expression of EMAP II by activated monocytes/microglial cells in different regions of the rat hippocampus after trimethyltin-induced brain damage. *Exp. Neurol.* 177: 341-346.
3. Matschurat, S., et al. 2003. Regulation of EMAP II by hypoxia. *Am. J. Pathol.* 162: 93-103.
4. Mueller, C.A., et al. 2003. Spinal cord injury induces lesional expression of the proinflammatory and antiangiogenic cytokine EMAP II. *J. Neurotrauma* 20: 1007-1015.
5. Mueller, C.A., et al. 2003. Lesional expression of a proinflammatory and antiangiogenic cytokine EMAP II confined to endothelium and microglia/macrophages during secondary damage following experimental traumatic brain injury. *J. Neuroimmunol.* 135: 1-9.
6. Murray, J.C., et al. 2004. Endothelial monocyte-activating polypeptide-II (EMAP II): a novel inducer of lymphocyte apoptosis. *J. Leukoc. Biol.* 75: 772-776.
7. LocusLink Report (LocusID: 2009). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: AIMP1 (human) mapping to 4q24.

PRODUCT

EMAP II (h2): 293 Lysate represents a lysate of human EMAP II transfected 293 cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

EMAP II (h2): 293 Lysate is suitable as a Western Blotting positive control for human reactive EMAP II antibodies. Recommended use: 10-20 μ l per lane.

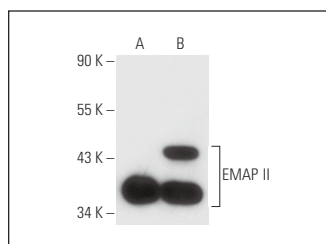
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

EMAP II (546-2): sc-32723 is recommended as a positive control antibody for Western Blot analysis of enhanced human EMAP II expression in EMAP II transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



EMAP II (546-2): sc-32723. Western blot analysis of EMAP II expression in non-transfected: sc-117752 (A) and human EMAP II transfected: sc-170463 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.