



BMA BIOMEDICALS

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Monoclonal Antibody to Human (Rat) EMAP II

Endothelial-Monocyte-Activating Polypeptide II

EMAP II is a proinflammatory cytokine and chemoattractant for macrophages. The 20kDa mature peptide binds to endothelial cells and leukocytes like macrophages. EMAP II activates endothelial cells, by elevation of cytosolic free calcium concentration, release of von Willebrand factor, induction of tissue factor, and expression of adhesion molecules E-selectin and P-selectin. It further activates resting monocytes by elevating cytosolic free Ca^{2+} , inducing $TNF\alpha$ and tissue factor, and stimulating chemotaxis. EMAP II has been shown in a tumour model to sensitize the local tumour vasculature to the action of $TNF\alpha$, rendering resistant tumours sensitive to immunotherapy by $TNF\alpha$. This monoclonal antibody was obtained by immunisation with human EMAP II and reacts with rat tissues as well.

Product Number:	T-1130 (Lot 01PO0004)
Clone:	546-2
Host species, isotype:	Mouse IgG1
Quantity:	200 μ g
Format:	Affinity purified, liquid Supplied as 0.2ml solution. This stock solution contains 1mg/ml IgG, phosphate buffered saline pH 7.2 (PBS) and 0.1% sodium azide as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in ELISA and Western Blot. Approximate working dilution for IHC: Frozen sections: 10 μ g/ml (1:100) Paraffin sections: 20 μ g/ml (1:50); Proteinase K pretreatment for antigen retrieval is recommended. Optimal dilutions should be determined by the end user. Suggested positive control: rat spleen. Please see www.bma.ch for protocols and general information.
Immunogen:	Recombinant human EMAP II.
Antigen, epitope:	The antigen is EMAP II, the epitope has not been further characterized.

Specificity:

Human: EMAP II

Other species: rat.

Selected references

Schluesener, H.J. et al.: Localization of Endothelial-Monocyte-Activating Polypeptide II (EMAP II), a Novel proinflammatory cytokine, to lesions of experimental autoimmune encephalomyelitis, neuritis and uveitis: expression by monocytes and activated microglial cells. *Glia* **20**, 365-372 (1997)

Schluesener, H.J. et al.: Effects of autoantigen and dexamethasone treatment on expression of endothelial-monocyte activating polypeptide II and allograft-inflammatory factor-1 by activated macrophages and microglial cells in lesions of experimental autoimmune encephalomyelitis, neuritis and uveitis. *Acta Neuropathol.* **97**, 119-126 (1999).

For in vitro research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.