

Product datasheet for **TA363827**

EMAP II (AIMP1) Monoclonal Antibody [Clone ID: 546-2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	546-2
Applications:	IHC
Recommended Dilution:	Tested for immunohistochemistry (IHC); has been described to work in ELISA and Western Blot. Approximate working dilution for IHC: Frozen sections: 5µg/ml (1:40) Paraffin sections: 5-10µg/ml (1:20-1:40), microwave pretreatment for antigen retrieval is recommended. Optimal dilutions should be determined by the end user. Suggested positive control: rat spleen.
Reactivity:	Human
Clonality:	Monoclonal
Immunogen:	Recombinant human EMAP II.
Specificity:	Human: EMAP II Other species: rat.
	Epitope: The antigen is EMAP II, the epitope has not been further characterized.
Formulation:	Affinity purified,biotinylated, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% Kathon CG as a preservative.
Concentration:	N/A
Conjugation:	Biotin
Storage:	Original vial: 1 year at 4° - 8°C. Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Gene Name:	aminoacyl tRNA synthetase complex interacting multifunctional protein 1
Database Link:	Entrez Gene 9255 Human Q12904



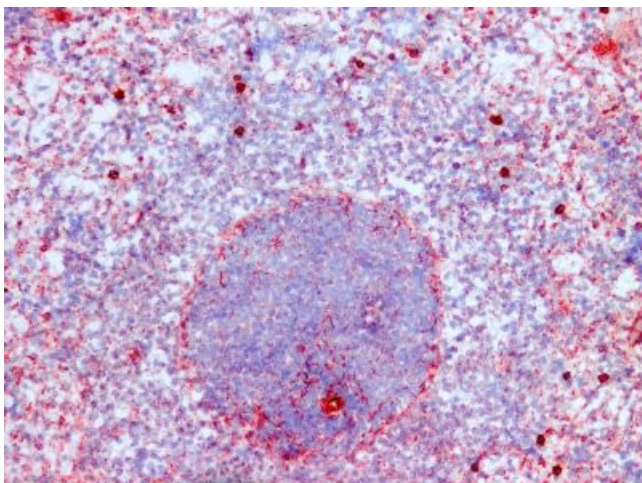
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Background:

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 α 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 α , rendering resistant tumours sensitive to immunotherapy by TNF α . This monoclonal antibody was obtained by immunisation with human EMAP II and reacts with rat tissues as well.

Synonyms:

EMAP-2; EMAP2; EMAPII; p43; SCYE1

Product images:

TA363827, Clone 546-2 Biotin, rat spleen, frozen section