

Product datasheet for **BM4115S**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	546-2
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	Flow cytometry: The typical starting working dilution is 1:10. Immunoassays. Immunohistochemistry on paraffin sections: The typical starting working dilution is 1:10. Western blot: The typical starting working dilution is 1:10.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Specificity:	Monoclonal antibody 546-2 reacts with endothelial-monocyte-activating polypeptide II (EMAP II), a 20 kDa polypeptide.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
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 an antiangiogenic and proinflammatory cytokine (expressed by microglia/macrophages). EMAP II appears to be a profound modulator of inflammatory reactions of the innate immune system and might participate in a variety of pathogenic immune-processes in the mammalian brain. EMAP II is a potential mediator of inflammatory responses in autoimmunity and a considered target to stage reactions of monocytic lineage cells in inflammatory reactions. In normal tissues EMAP II is expressed in endocrine organs, in cells of neuroendocrine origin, but also in tissues with high cell turnover. Under pathophysiological conditions EMAP II has several functions. It triggers the recruitment of macrophages by elevating cytosolic-free Ca²⁺ concentrations, it stimulates leukocyte chemotaxis, it induces the expression of TNF-alpha and tissue factor (TF) by monocytes and myeloperoxidase (MPO) by polymorphonuclear cells (PNMs). Furthermore it stimulates the release of von Willebrand-factor, P- and E-selectin by endothelial cells and EMAP II induces endothelial programmed cell death in vitro.

Synonyms:

EMAP-2, EMAP-II, AIMP1