

Human Aminopeptidase N/CD13 Alexa Fluor® 488-conjugated Antibody

Recombinant Monoclonal Mouse IgG2A Clone # 986002

Catalog Number: FAB38152G

100 µg

DESCRIPTION				
Species Reactivity	Human			
Specificity	Detects human Aminopeptidase N/CD13.			
Source Recombinant Monoclonal Mouse IgG _{2A} Clone # 986002				
Purification	Protein A or G purified from hybridoma culture supernatant			
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Aminopeptidase N/CD13 Lys69-Lys967 Accession # AAA51719			
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm			
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.			
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.			

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Tiease Note. Optimal dilutions should be determined by each	e. Opinhal alludions should be determined by each laboratory for each application. General Protocols are available in the Technical Information Section on our website.			
	Recommended Concentration	Sample		
Flow Cytometry	0.25-1 μg/10 ⁶ cells	U937 Human cell line		

PREPARATION AND STORAGE

Sł	nipp	ina '	The product is shipped with i	oolar packs. L	lpon receipt, store it imn	mediately at the temi	perature recommended below.

Stability & Storage Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The human ANPEP gene encodes aminopeptidase N (APN), which is also known as microsomal aminopeptidase, alanyl aminopeptidase, aminopeptidase M, CD13, or membrane protein p161 (1-3). The deduced amino acid sequence of human APN consists of a short cytoplasmic tail (residues 2 to 8), a transmembrane region (residue 9 to 32), a Ser/Thr rich region and a zinc metalloprotease domain (residues 69 to 966). The amino acid sequence of human APN is 78% and 77% identical to that of rat and mouse, respectively. Widely expressed in many cells, tissues and species, APN cleaves the N-terminal amino acids from bioactive peptides, leading to their inactivation or degradation. The roles of APN in many fields, such as neuroscience, hematopoeitic cells, immune system, angiogenesis, cancer and viral infection, have been reviewed (3).

References:

- 1. Olsen, J. et al. (1988) FEBS Lett. 238:307.
- 2. Look, A.T. et al. (1989) J. Clin. Invest. 83:1299
- 3. Turner, A.J. (2004) in Handbook of Proteolytic Enzymes (ed. Barrett, et al.) pp. 289, Academic Press, San Diego.

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