

Mouse ENPP-7/Alk-SMase Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: BAF5160

DESCRIPTION

Species Reactivity	Mouse		
Specificity	Detects mouse ENPP-7/Alk-SMase in Western blots. In Western blots, approximately 50% cross-reactivity with recombinant human ENPP-7 is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse ENPP-7/Alk-SMase Ala22-Gln421 Accession # NP_001025462		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended Concentration	Sample		
Western Blot	0.1 μg/mL	Recombinant Mouse ENPP-7/Alk-SMase (Catalog # 5160-EN)		

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	 12 months from date of receipt, -20 to -70 °C as supplied. 		
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 		
	6 months -20 to -70 °C under sterile conditions after reconstitution		

BACKGROUND

ENPP7 (ectonucleotide pyrophosphatase/phosphodiesterase 7), also known as alkaline sphingomyelinase (Alk-SMase) is expressed in the intestines and in bile (1). It shares 30 - 36% homology with the members of the nucleotide pyrophosphatase/phosphodiesterese (NPP) family while sharing no similarities with neutral or acid SMase (2). Its main function is the digestion of dietary sphingomyelin by hydrolyzing sphingomyelin into ceramide and phosphorylcholine. ENPP7 is reported to hydrolyse and inactivate platelet-activating factor (PAF) by a phospholipase C-type activity (3). Studies show a decrease in ENPP7 activity in human colorectal adenocarcinomas and human colorectal carcinomas, which indicate a potential role of ENPP7 in human colon cancer (4, 5).

References:

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- 3. Wu, J. et al. (2006) Biochem J. 394:299.
- 4. Hertervig, E. et al. (1996) Cancer. 79:448.
- 5. Hertervig, E. *et al.* (1999) Br. J. Cancer. **81**:232.

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