

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ENPP-7/Alk-SMase in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) ENPP-2, rhENPP-5, recombinant mouse ENPP-7 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 560514
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ENPP-7/Alk-SMase Pro23-Ser439 Accession # Q6UWV6
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ENPP-7 (ectonucleotide pyrophosphatase/phosphodiesterase 7), also known as alkaline sphingomyelinase (Alk-SMase) is a 60 kDa GPI-linked membrane glycoprotein expressed in the intestines and in human bile. It shares 30%-36% homology with the NPP family, but is unrelated to neutral or acid SMase. ENPP-7 hydrolyzes dietary sphingomyelin to form ceramide and phosphorylcholine, and may also hydrolyze and inactivate platelet-activating factor (PAF). It is down-regulated in some human colorectal carcinomas. The 416 amino acid (aa) mature human ENPP-7 shares 80% and 82% aa identity with mouse and rat ENPP-7, respectively.

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