

DESCRIPTION

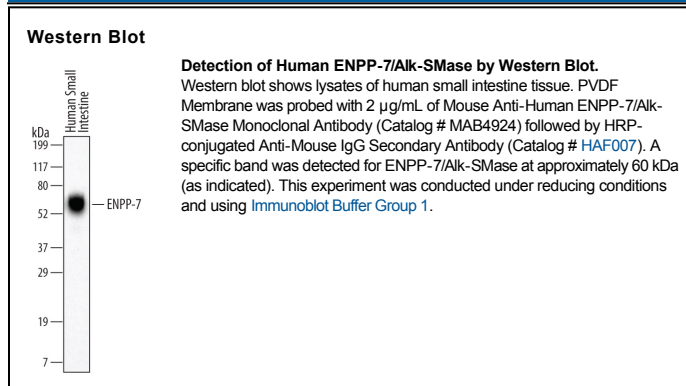
Species Reactivity	Human
Specificity	Detects human ENPP-7/Alk-SMase in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) ENPP-2, rhENPP-5, recombinant mouse ENPP-7 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 560514
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ENPP-7/Alk-SMase Pro23-Ser439 Accession # Q6UWV6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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

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.