

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5909

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Lipase I in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli-</i> derived recombinant human Lipase I Arg14-His154 Accession # Q6XZB0	
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 either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

DATA

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	1 µg/mL	See Below		

Western Blot	Detection of Human Lipase I by Western Blot. Western blot shows lysates of human testis tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Lipase I Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5909) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Lipase I at approximately 54 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunobiot Buffer Group 8.		
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. *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. 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

Lipase I (Lipase member I; also mPA-PLA₁β, LPDL and PLA1C) is a 55 kDa member of the PLA₁ subfamily, pancreatic lipase family, AB hydrolase superfamily of enzymes. It is expressed by sperm, where it is apparently secreted and subsequently binds to membrane-associated HSPGs. Lipase I hydrolyzes phosphatidic acid to generate 2-acyI-LPA, which then activates one of four G-protein coupled receptors. Human Lipase I precursor is 460 amino acids (aa) in length. It contains a 15 aa signal sequence, followed by an active catalytic site composed of Ser159, Asp183 and His268. Lipase I is known to be phosphorylated on Ser25. There are two isoform variants, both of which show a 34 aa substitution for aa 1-13, and only one of which shows an eight aa substitution for aa 245-460. Over aa 14-154, human Lipase I shares 61% aa identity with mouse Lipase I.

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