Human Lipase I Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5909X
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Lipase I in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Lipase I Arg14-His154 Accession # Q6XZB0
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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

Lipase I (Lipase member I; also mPA-PLA$_1$βĜ LPDL and PLA1C) is a 55 kDa member of the PLA$_1$ 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-acyl-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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