Human PLA2G16 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6190G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PLA2G16 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human PLA2G16 Asp12-Asp132 Accession # P53816
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

PLA2G16 (Group 16 phospholipase A2; also HREV107 and AdPLA) is a Ca^{++}-dependent 17-18 kDa member of the H-rev107 family of molecules. It is expressed intracellularly by white adipocytes, induced by insulin, and generates arachadonic acid from phospholipids. The arachadonic acid is converted to PGE2, which binds the EP3 receptor and decreases cAMP levels. This results in decreased hormone-sensitive lipase activity and increased adiposity. Human PLA216 is 162 amino acids (aa) in length. It is associated with both membranes and cytosol, and may possess a transmembrane segment between aa 134-154. The enzymatic activity resides in His23 and Cys113. There is one potential isoform that shows a 20 aa substitution for the first four amino acids. Over aa 12 - 132, human PLA2G16 shares 88% aa identity with mouse PLA2G16.

PRODUCT SPECIFIC NOTICES

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