

## PLA2G16 Conjugated Antibody

Catalog No: #C43690



Package Size: #C43690-AF350 100ul #C43690-AF405 100ul #C43690-AF488 100ul  
 #C43690-AF555 100ul #C43690-AF594 100ul #C43690-AF647 100ul  
 #C43690-AF680 100ul #C43690-AF750 100ul #C43690-Biotin 100ul

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## Description

Product Name	PLA2G16 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total PLA2G16 protein.
Immunogen Description	Synthetic peptide of human PLA2G16
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	AdPLA;HRSL3;HRASLS3;HREV107;HREV107-1;HREV107-3;H-REV107-1
Accession No.	Swiss-Prot#:P53816NCBI Gene ID:11145NCBI Protein#:NP_009000
Uniprot	P53816
GeneID	11145;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

## Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Background

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Secretory phospholipase A2 (PLA2) enzymes cleave an acyl ester bond in the sn-2 position of glycerophospholipids. These extracellular proteins have a high disulfide bond content, low molecular mass (14 kDa), and require mM levels of Ca<sup>2+</sup> for catalysis. They play a crucial role in the generation of arachidonates and eicosanoids, and have a number of biological actions including immunological responses, inflammation, cellular proliferation, vasoconstriction, and bronchioconstriction. Exhibits PLA1/2 activity, catalyzing the calcium-independent hydrolysis of acyl groups in various phosphatidylcholines (PC) and phosphatidylethanolamine (PE). For most substrates, PLA1 activity is much higher than PLA2 activity. Specifically catalyzes the release of fatty acids from phospholipids in adipose tissue (By similarity). N- and O-acylation activity is hardly detectable. Might decrease protein phosphatase 2A (PP2A) activity.

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Note: This product is for in vitro research use only