



Anti 1-Oleoyl-Palmitoyl-Phosphatidylcholine (OPPC)

BACKGROUND

The main constituents of biological membrane are the glycerophospholipids. Besides variety in their hydrophilic portions, phospholipids comprise various molecular species with different fatty acid moieties. Among those varieties, this antibody selectively binds to the phosphatidylcholine with oleic acid at the sn-1 site. This type of lipid is concentrated at the tip of neuronal protrusions.

Product type	Primary Antibodies
Immunogen	PC12 raft fraction
Rased in	Mouse (Balb/c)
Myeloma	PAI
Clone number	15-3C1
Isotype	IgM
Host	-
Source	Culture supernatant (+10%FBS)
Purification	-
Buffer	TBS+50% glycerol+0.025% NaN ₃
Concentration	300 ug / ml
Volume	200 ul
Label	Unlabeled
Specificity	1-Oleoyl-phosphatidylcholine
Antigen	PC12 raft fraction
Cross reactivity	-
Storage	Store at -20
Other	

Application notes	• Immno-electron microscopy: 3 ug/ml (Ref.1, Fig. 1)
Recommended	• Fluorescence - activated cell sorter: 1 ug/ml (Ref. 1, Fig. 3)
dilutions	• Immuno-fluorescence cell staining: 0.3 ug/ml (Ref.1, Fig. 1) • ELISA: 3 ug/ml (Ref.1, Fig. 2) Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.

References	1) Kuge H. <i>et al.</i> Functional Compartmentalization of the Plasma Membrane of Neurons by a Unique Acyl Chain Composition of Phospholipids J. Biol. Chem. 289 (2014) PMID:25096572
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ANTIBODY CHARACTERIZATION

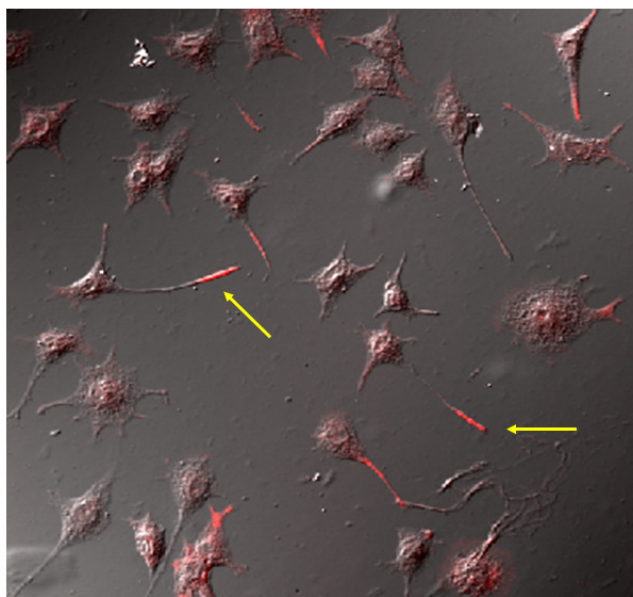


Fig.1 OPPC localization analysis
on cultured nerve cell(rat PC12 cell, clone#15-3C1)

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