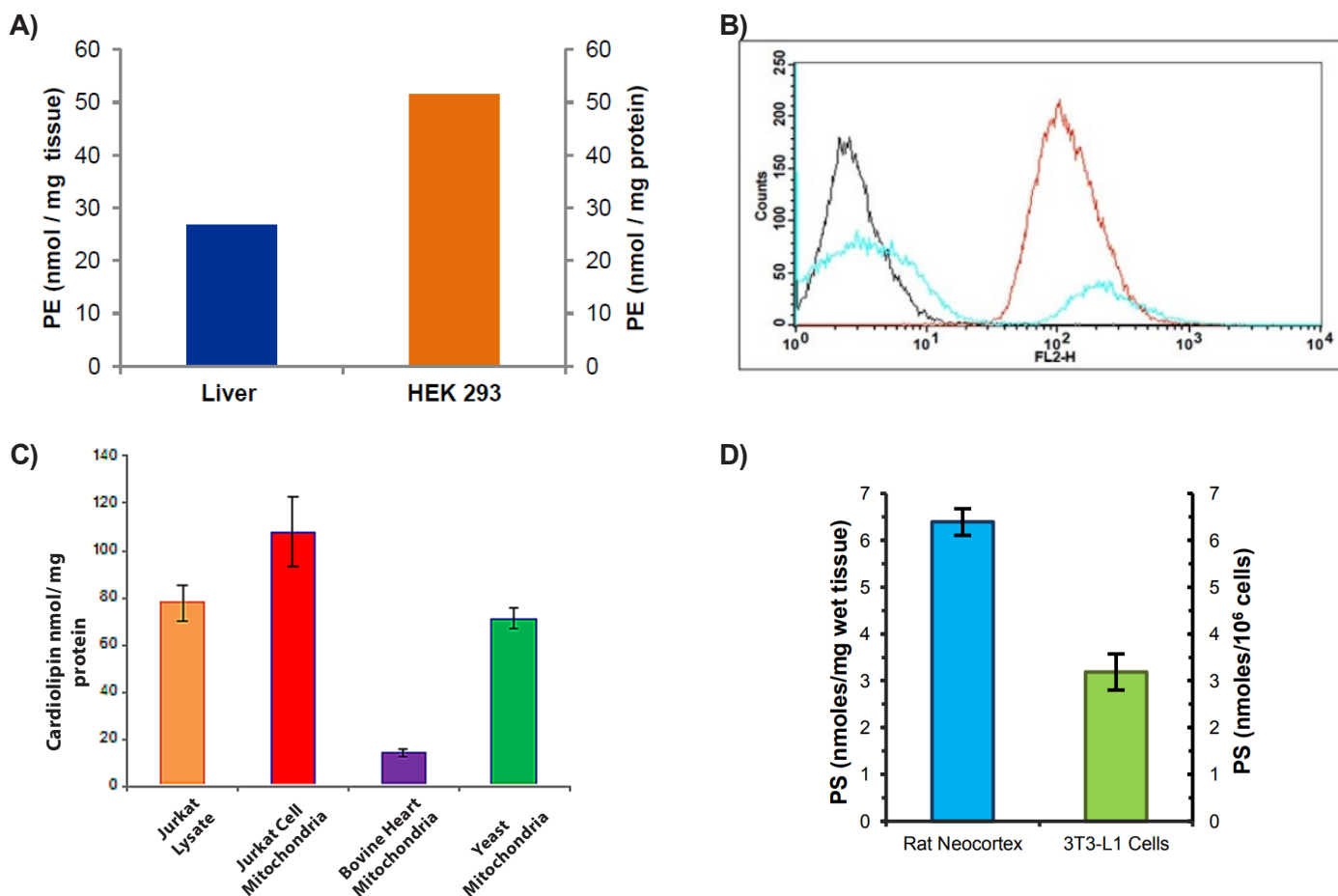


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Phospholipids are major components of the bilayers of all plasma membranes. Many phospholipids play critical role in structural membrane integrity, cellular metabolism and signaling either as individual molecules or precursors of secondary messengers. BioVision is proud to offer versatile, yet specific products for the quantification and detection of phospholipids in tissue lysates, biological fluids or intact mammalian cells.

Key Features:

- **Non-radioactive, versatile assays** (Flow cytometry/Fluorescence Microscopy/Microplate)
- **Specific**, homogeneous assay
- **Sensitive:** colorimetric/fluorometric format
- **Convenient:** minimal sample preparation, fast protocols (< 2 hours)
- **Cost effective:** 100 assays; High Throughput Screening (HTS) compatible
- **Adaptable:** works with most of the commonly available instrumentations



Figures: **A)** Determination of Phosphatidylethanolamine Concentration in rat liver and HEK293 cell lysate using **K499-100**. **B)** Analysis of metabolic labeling of phospholipids in proliferating cells using **K717-100** and Jurkat Cells. Legend: Vehicle: black, EZClick™ Phospholipid Label: red. Phospholipase D treatment: blue line. **C)** Cardiolipin content per mg protein (using **K944-100**) in Jurkat cell lysate, Jurkat cell mitochondria, Bovine heart mitochondria and Yeast Mitochondria (*S. cerevisiae*). **D)** Determination of Phosphatidylserine Concentration in Rat Neocortex and 3T3-L1 cell lysate using **K565-100**.

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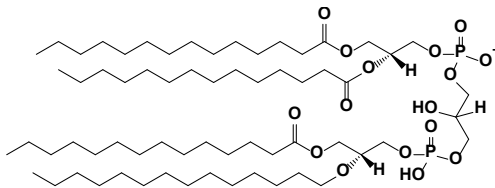
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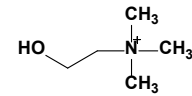


Phospholipids

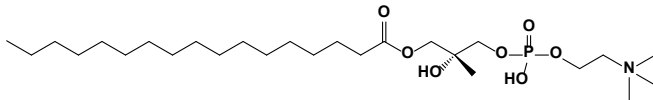
Cardiolipin (K944-100)



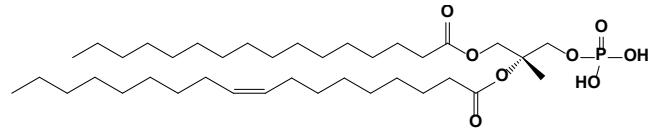
Choline/Acetylcholine (K615-100)



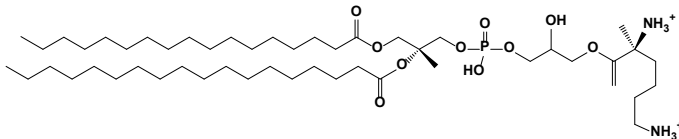
Lysophosphatidylcholine (K735-100)



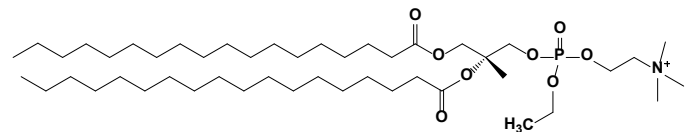
Phosphatidic Acid (K748-100)



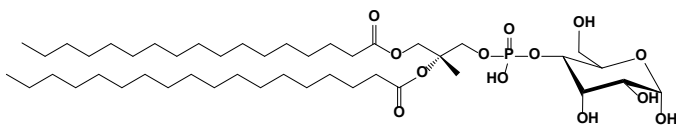
Phosphatidylglycerol (K488-100)



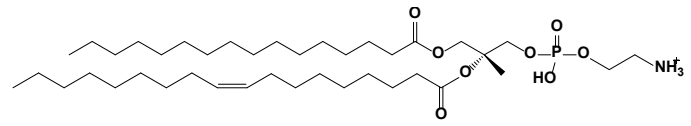
Phosphatidylcholine (K576-100)



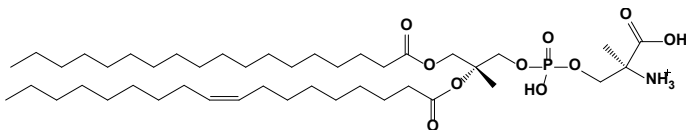
Phosphatidylinositol (K750-100)



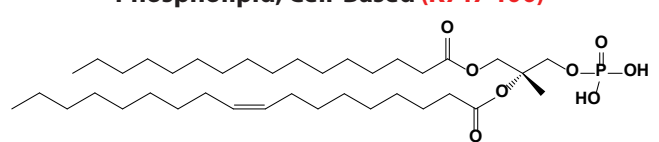
Phosphatidylethanolamine (K499-100)



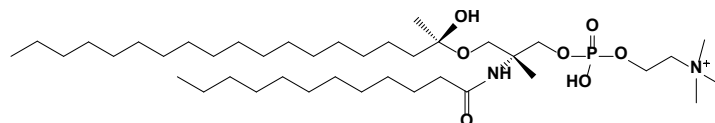
Phosphatidylserine (K565-100)



**Phospholipids, Total (K351-100)
Phospholipid, Cell-Based (K717-100)**



Sphingomyelin (K600-100)



Structures based on average Fatty Acid distribution

Target	Cat. No.	Detection Limit	Sample Type
Cardiolipin (F)	K944	250 pmol	Cell lysate, isolated mitochondria
Choline/Acetylcholine (C/F)	K615	10 pmol	Cell/tissue lysate
Lysophosphatidylcholine (C/F)	K735	50 pmol	Serum, plasma
Phosphatidic Acid (F)	K748	100 pmol	Cell/tissue lysate
Phosphatidylcholine (C/F)	K576	50 pmol	Cell/tissue lysate
Phosphatidylethanolamine (F)	K499	250 pmol	Cell/tissue lysate
Phosphatidylglycerol (F)	K488	100 pmol	Tissue lysate
Phosphatidylinositol (F)	K750	50 pmol	Cell/tissue lysate, serum, plasma
Phosphatidylserine (F)	K565	100 pmol	Cell/tissue lysate
Phospholipid, Cell-Based	K717	N/A	Adherent cells, suspension cells
Phospholipids, Total (C/F)	K351	50 pmol	Cell/tissue lysate, serum, plasma
Sphingomyelin (C)	K600	500 pmol	Cell/tissue lysate, serum

C: Colorimetric; F: Fluorometric; N/A: Not Available; pmol: picomole

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