

# Immunology Resources

## Phospholipids

<b>PI(3)P</b>	P-3016
<b>PI(3,4,5)P3</b>	P-3916
<b>Phosphatidylethanolamine (PE)</b>	L-2182
<b>Phosphatidylcholine (PC)</b>	L-1618
<b>Phosphatidylserine (PS)</b>	L-3116

## Ionizable/Cationic Lipids

<b>ALC-0159</b>	N-2010
<b>ALC-0315</b>	N-1020
<b>cKK-E12</b>	N-1012
<b>SM-102</b>	N-1102
<b>DLin-MC3-DMA</b>	N-1282

## Kits & Assays

<b>PTEN Activity ELISA</b>	K-4700
<b>Sphingosine 1-Phosphate ELISA</b>	K-1900
<b>PIP3 Mass ELISA</b>	K-2500s
<b>PI3-Kinase Activity ELISA</b>	K-1000s
<b>PI(3)P Mass ELISA</b>	K-3300

Immunology is the study of the immune system, a complex system of processes that guards against and fights disease. The human immune system has two broad lines of defense, innate and adaptive immunity, which initiate first line counters and longer term antigen-specific responses, respectively. Understanding the interplay between these two branches has enabled the development of advanced treatments against specific pathogens and is key to understanding autoimmune disorders wherein immune dysfunction leads to attacks on endogenous tissue.

Immunology is a complex area of cell biology as it involves a number of different cell types and signaling pathways across its two major branches, innate and adaptive. As such, multiple methods of analyzing biological processes are necessary including enzyme activity assays, immunofluorescent staining, and live cell assays using antibody and peptide agonists.

Our evolving understanding of immunology has led to remarkable advances in therapies for cancer, development of novel vaccines, and treatments for immunodeficiency disorders. Continuing research in this area is critical in order to further advance human health.

## Antibodies & Nanobodies

<b>PI(4,5)P2</b>	Z-P045
<b>PI(4)P</b>	Z-P004
<b>PI(3,4)P2</b>	Z-P034
<b>LBPA</b>	Z-PLBPA
<b>Sphingosine 1-Phosphate</b>	Z-P300

## Peptides

<b>fMLP Chemotactic Peptide</b>	850-15
<b>Granuliberin R</b>	880-87
<b>Innate Defense Regulator</b>	745-20
<b>SARS-CoV-2 N4P5</b>	732-21
<b>Spike Binding Peptide-1</b>	732-20

## Biochemical Reagents

<b>3AC, SHIP1 Inhibitor</b>	B-0341
<b>FYT720</b>	B-0721
<b>PI(3)P Beads</b>	P-B003a
<b>PI(3)P PolyPIPosomes</b>	Y-P003
<b>PI(4)P Beads</b>	P-B004a
<b>PI(4)P PolyPIPosomes</b>	Y-P004
<b>Isopentenyl Diphosphate (IPP)</b>	I-0050
<b>HDMAPP</b>	I-M055
<b>PS Microparticles</b>	P-B1PS
<b>PC Microparticles</b>	P-B1PC



