



## Mouse Anti-PI(4,5)P2 monoclonal antibody, clone 3D22 (DMABB-JX104)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Specificity</b>	Reacts primarily with the head group of the PI(4,5)P2 phosphoinositide (of synthetic or natural origin), and demonstrates low cross-reactivity with other phosphoinositides or phospholipids depending on the assay format.
<b>Immunogen</b>	Synthetic PI(4,5)P2 in liposomes
<b>Isotype</b>	IgM
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	N/A
<b>Clone</b>	3D22
<b>Purification</b>	Affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, IF/ICC Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Format</b>	Purified, Liquid
<b>Concentration</b>	1.0 mg/mL
<b>Size</b>	10 µg, 50 µg, 250 µg
<b>Buffer</b>	PBS, pH 7.4

<b>Preservative</b>	None
<b>Storage</b>	Store at 4°C for short term. Store at -20 °C or below for long term. Avoid freeze/thaw cycles.
<b>Ship</b>	Wet ice

## BACKGROUND

**Introduction** PI(4,5)P2 is a phospholipid that is enriched in the plasma membrane of cells. It is known to be a substrate of PLC as part of IP3/DAG signaling, and PI3-kinases in PIP3 signaling. It is also known to be involved as a regulatory element of membrane trafficking.

**Keywords** Phosphatidylinositol; PIP2; PI(4,5)P2; Phosphatidylinositol biphosphate; Phosphatidylinositol diphosphate; PIP 2; Phosphatidylinositol 4, 5-biphosphate