



## Mouse Anti-PI(4,5)P2 monoclonal antibody (ascites), clone 3D22 (DMABB-JX84)

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>       | Unpurified  |
| <b>Conjugate</b>          | Unconjugated  |
| <b>Applications</b>       | ELISA, IF/ICC<br>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>             | Unpurified, ascites   |
| <b>Concentration</b>      | 4.9 mg/ml   |
| <b>Size</b>               | 100 µg, 200 µg, 500 µg  |
| <b>Buffer</b>             | 0.01% thiomersal  |

**Storage** Store at -20 °C or -80°C for long term. Avoid freeze/thaw cycles.

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**Ship** Wet ice

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## BACKGROUND

**Introduction** PI(4,5)P<sub>2</sub> is a phospholipid that is enriched in the plasma membrane of cells. It is known to be a substrate of PLC as part of IP<sub>3</sub>/DAG signaling, and PI3-kinases in PIP<sub>3</sub> signaling. It is also known to be involved as a regulatory element of membrane trafficking.

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**Keywords** Phosphatidylinositol; PIP<sub>2</sub>; PI(4,5)P<sub>2</sub>; Phosphatidylinositol biphosphate; Phosphatidylinositol diphosphate; PIP 2; Phosphatidylinositol 4, 5-biphosphate

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