

## Rabbit PLCbeta3 Polyclonal Antibody | anti-PLCB3 antibody

Phospho-PLCbeta3 (Ser1105) Antibody

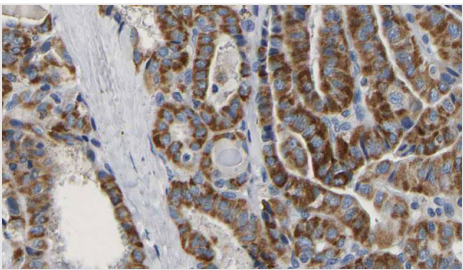
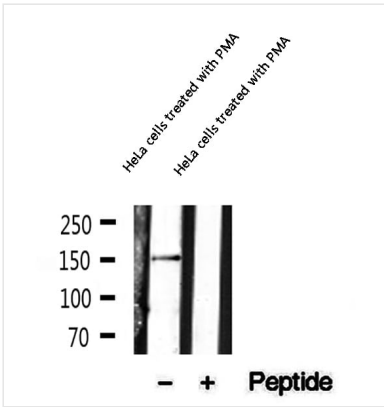
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                       |
|-----------|--------|-------------------|------------------------------------|
| AAA321367 | Rabbit | Human, Mouse, Rat | Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

PLCbeta3; Polyclonal Antibody; Phospho-PLCbeta3 (Ser1105) Antibody; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta 3; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta-3; Phosphoinositide phospholipase C; Phosphoinositide phospholipase C-beta-3; Phospholipase C beta 3; Phospholipase C beta 3 (phosphatidylinositol specific); Phospholipase C-beta-3; PLC beta 3; PLC-beta-3; Plcb3; PLCB3\_HUMAN; anti-PLCB3 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                         |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                  |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                       |
| Clonality                                       | Polyclonal                                                                                                                              |
| Isotype                                         | IgG                                                                                                                                     |
| Specificity                                     | Phospho-PLCbeta3 (Ser1105) antibody detects endogenous levels of PLCbeta3.                                                              |
| Purity/Purification                             | From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                           |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                  |
| Sequence Length                                 | 1234                                                                                                                                    |
| Applicable Applications for anti-PLCB3 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                           |
| Immunogen                                       | A synthesized peptide derived from human PLCbeta3 around the phosphorylation site of Ser1105.                                           |
| Subcellular Location                            | Membrane.                                                                                                                               |
| Predicted Cross Reactivity                      | <b>Pig, Bovine, Horse, Sheep, Dog, Xenopus</b>                                                                                          |
| Similarity                                      | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Xenopus (91%)                                                        |
| Conjugation                                     | Unconjugated                                                                                                                            |
| Epitope                                         | Phospho Ser1105                                                                                                                         |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                       |



**IHC (Immunohistochemistry)**  
AAA321367 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**  
Western blot analysis of extracts of HeLa cells treated with PMA, using Phospho-PLCbeta3 (Ser1105) Antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PLCB3 antibody | Function: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1, 4, 5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes.<br>Subunit Structure: Interacts with SHANK2 (By similarity). Interacts with LPAR2. |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| NCBI GI #                        | 11386139                                                                   |
| NCBI GeneID                      | 5331                                                                       |
| NCBI Accession #                 | NP_000923.1                                                                |
| NCBI GenBank Nucleotide #        | NM_000932.2                                                                |
| UniProt Accession #              | Q01970; Q8N1A4; A5PKZ6; G5E960                                             |
| Molecular Weight                 | Observed: 150 kDa<br>Predicted: 139 kDa                                    |
| NCBI Official Full Name          | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3 isoform 1 |
| NCBI Official Synonym Full Names | phospholipase C beta 3                                                     |
| NCBI Official Symbol             | PLCB3                                                                      |
| NCBI Protein Information         | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3           |
| UniProt Protein Name             | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3           |
| UniProt Gene Name                | PLCB3                                                                      |
| UniProt Synonym Gene Names       | PLC-beta-3                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.