

[22627129](http://www.uniprot.org/citations/22627129), PubMed: [23949095](http://www.uniprot.org/citations/23949095), PubMed: [9159104](http://www.uniprot.org/citations/9159104)). Also plays an important role in the biosynthesis of complex lipids (Probable). Does not exhibit an acyl chain-dependent substrate specificity among diacylglycerol species (PubMed: [19744926](http://www.uniprot.org/citations/19744926), PubMed: [22108654](http://www.uniprot.org/citations/22108654), PubMed: [9159104](http://www.uniprot.org/citations/9159104)). Can also phosphorylate 1-alkyl-2-acylglycerol in vitro but less efficiently and with a preference for alkylacylglycerols containing an arachidonoyl group (PubMed: [15544348](http://www.uniprot.org/citations/15544348), PubMed: [19744926](http://www.uniprot.org/citations/19744926), PubMed: [22627129](http://www.uniprot.org/citations/22627129)). The biological processes it is involved in include T cell activation since it negatively regulates T-cell receptor signaling which is in part mediated by diacylglycerol (By similarity). By generating phosphatidic acid, stimulates PIP5KIA activity which regulates actin polymerization (PubMed: [15157668](http://www.uniprot.org/citations/15157668)). Through the same mechanism could also positively regulate insulin-induced translocation of SLC2A4 to the cell membrane (By similarity).

Cellular Location

Nucleus. Cytoplasm, cytosol. Cell membrane. Cell projection, lamellipodium

Tissue Location

Highest levels in brain, and substantial levels in skeletal muscle, heart, and pancreas.

DGKZ Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DGKZ Rabbit mAb - Images

