

PLD2 (Phospho-Tyr169) Antibody

Catalog No: #11813



Package Size: #11813-1 50ul #11813-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

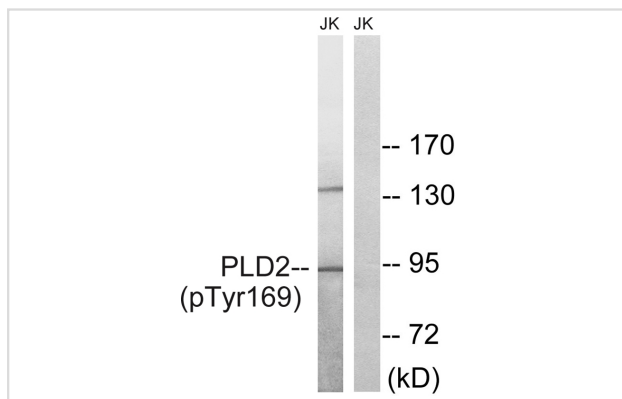
| | |
|-----------------------|---|
| Product Name | PLD2 (Phospho-Tyr169) Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications | WB IHC |
| Species Reactivity | Human |
| Specificity | The antibody detects endogenous levels of PLD2 only when phosphorylated at tyrosine 169. |
| Immunogen Type | Peptide-KLH |
| Immunogen Description | Peptide sequence around phosphorylation site of tyrosine 169(E-N-Y(p)-L-N) derived from Human PLD2. |
| Conjugates | Unconjugated |
| Target Name | PLD2 |
| Modification | Phospho |
| Other Names | PLD 2; PLD1C; choline phosphatase 2; |
| Accession No. | Swiss-Prot#: O14939; NCBI Gene#: 5338; NCBI Protein#: NP_002654.3. |
| Calculated MW | 95 kDa |
| SDS-PAGE MW | 95 kDa |
| Concentration | 1.0mg/ml |
| Formulation | Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C/1 year |

Application Details

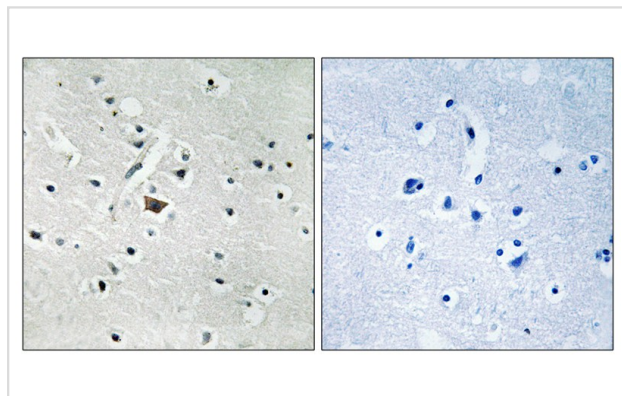
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from Jurkat cells treated with TNF using PLD2 (Phospho-Tyr169) Antibody #11813. The lane on the right is treated with the antigen-specific peptide.



Immunohistochemical analysis of paraffin-embedded human brain tissue using PLD2 (Phospho-Tyr169) antibody #11813 (left) or the same antibody preincubated with blocking peptide (right).

Background

Phosphatidylcholine (PC)-specific phospholipases D (PLDs) catalyze the hydrolysis of PC to produce phosphatidic acid and choline. Activation of PC-specific PLDs occurs as a consequence of agonist stimulation of both tyrosine kinase and G protein-coupled receptors. PC-specific PLDs have been proposed to function in regulated secretion, cytoskeletal reorganization, transcriptional regulation, and cell cycle control.

Steed P.M., *FASEB J.* 12:1309-1317(1998).

Lopez I., *J. Biol. Chem.* 273:12846-12852(1998).

Divecha N., *EMBO J.* 19:5440-5449(2000).

Published Papers

Yoshimitsu Masato, Kiyota Kyohei et al., Development of a Mass Spectrometry-Based Quantitative Method for Two Isoallergens of Celery Allergen Api g 1 in Fresh and Processed Celery, *Journal of agricultural and food chemistry*, (2025)

[PMID:40794457](https://pubmed.ncbi.nlm.nih.gov/40794457/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.