

Anti-Phospholipase D4 Antibody
Rabbit polyclonal antibody to Phospholipase D4
Catalog # AP60360**Specification**

Anti-Phospholipase D4 Antibody - Product Information

Application	WB, IH
Primary Accession	Q96BZ4
Other Accession	Q8BG07
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55626

Anti-Phospholipase D4 Antibody - Additional Information**Gene ID** 122618**Other Names**

C14orf175; Phospholipase D4; PLD 4; Choline phosphatase 4; Phosphatidylcholine-hydrolyzing phospholipase D4

Target/Specificity

Recognizes endogenous levels of Phospholipase D4 protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

IH~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-Phospholipase D4 Antibody - Protein Information**Name** PLD4**Synonyms** C14orf175**Function**

5'→3' DNA exonuclease which digests single-stranded DNA (ssDNA). Regulates inflammatory cytokine responses via the degradation of nucleic acids, by reducing the concentration of ssDNA able to stimulate TLR9, a nucleotide-sensing receptor. Involved in phagocytosis of activated microglia.

Cellular Location

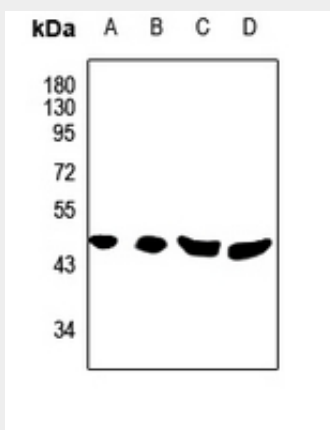
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8BG07}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q8BG07}. Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:Q8BG07}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q8BG07}. Nucleus {ECO:0000250|UniProtKB:Q8BG07}. Early endosome {ECO:0000250|UniProtKB:Q8BG07}. Cytoplasmic vesicle, phagosome {ECO:0000250|UniProtKB:Q8BG07}. Note=Activation of microglia induces translocation of PLD4 from the nucleus to the phagosomes {ECO:0000250|UniProtKB:Q8BG07}

Anti-Phospholipase D4 Antibody - Protocols

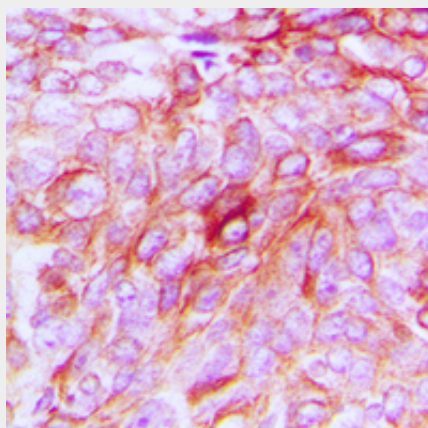
Provided below are standard protocols that you may find useful for product applications.

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

Anti-Phospholipase D4 Antibody - Images



Western blot analysis of Phospholipase D4 expression in PC12 (A), CT26 (B), Hela (C), A549 (D) whole cell lysates.



Immunohistochemical analysis of Phospholipase D4 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-Phospholipase D4 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Phospholipase D4. The exact sequence is proprietary.