

# Product Datasheet

## Phospholipase D2 Antibody (7E4D9) - BSA Free NBP2-61784

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 2

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**NBP2-61784**

Phospholipase D2 Antibody (7E4D9) - BSA Free

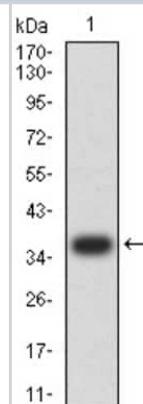
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7E4D9
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	106 kDa

Product Description	
Description	Novus Biologicals Mouse Phospholipase D2 Antibody (7E4D9) - BSA Free (NBP2-61784) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-Phospholipase D2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	5338
Gene Symbol	PLD2
Species	Human
Immunogen	Purified recombinant fragment of human Phospholipase D2 (AA: 834-933) expressed in E. Coli.

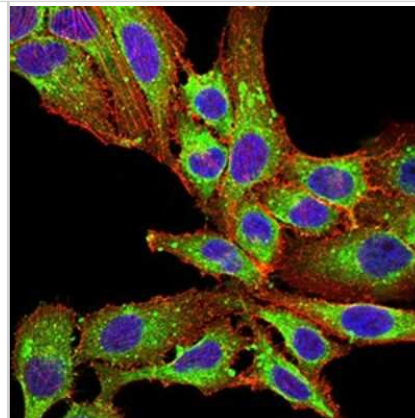
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry 1:200-1:1000, Immunocytochemistry/ Immunofluorescence 1:200-1:1000, Immunohistochemistry-Paraffin 1:200-1:1000

**Images**

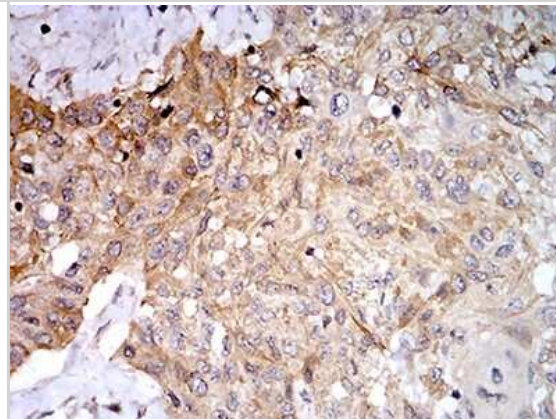
Western Blot: Phospholipase D2 Antibody (7E4D9) [NBP2-61784] - Analysis using PLD2 mAb against human PLD2 (AA: 834-933) recombinant protein. (Expected MW is 37.4 kDa)



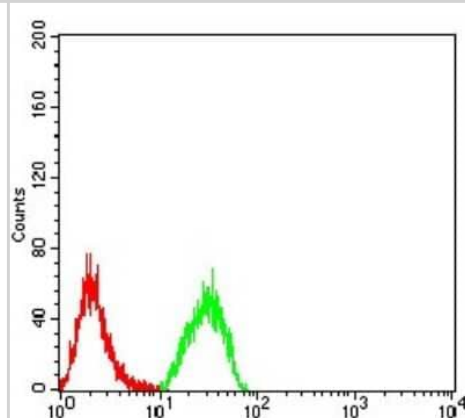
Immunocytochemistry/Immunofluorescence: Phospholipase D2 Antibody (7E4D9) [NBP2-61784] - Analysis of SK-OV-3 cells using PLD2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Goat anti-Mouse IgG (H+L) DyLight 488 secondary antibody was used.



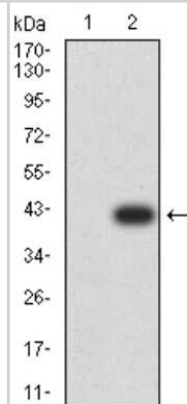
Immunohistochemistry: Phospholipase D2 Antibody (7E4D9) [NBP2-61784] - Analysis of paraffin-embedded esophageal cancer tissues using PLD2 mouse mAb with DAB staining.



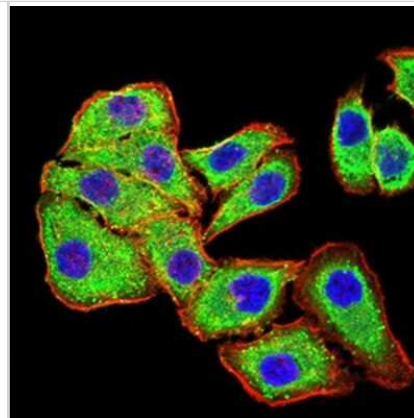
Flow Cytometry: Phospholipase D2 Antibody (7E4D9) [NBP2-61784] - Analysis of Hela cells using PLD2 mouse mAb (green) and negative control (red).



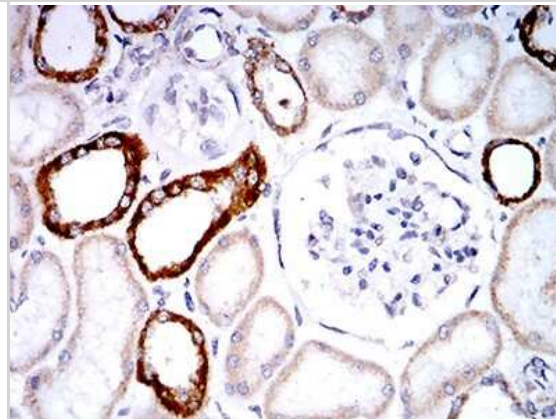
Western Blot: Phospholipase D2 Antibody (7E4D9) [NBP2-61784] - Analysis using PLD2 mAb against HEK293 (1) and PLD2 (AA: 834-933)-hlgGfc transfected HEK293 (2) cell lysate.



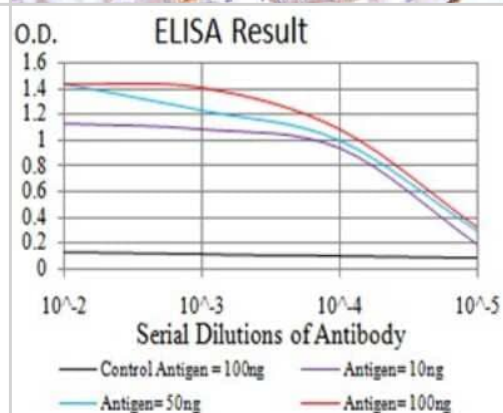
Immunocytochemistry/Immunofluorescence: Phospholipase D2 Antibody (7E4D9) [NBP2-61784] - Analysis of MCF-7 cells using PLD2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Goat anti-Mouse IgG (H+L) DyLight 488 secondary antibody was used.



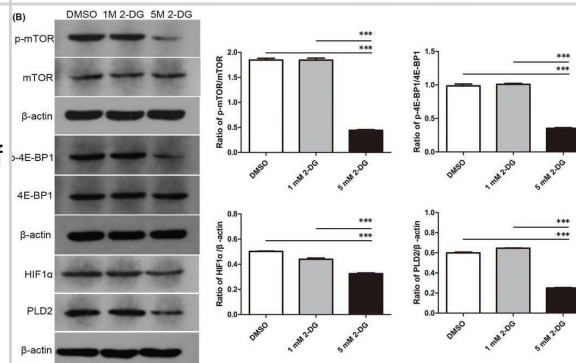
Immunohistochemistry: Phospholipase D2 Antibody (7E4D9) [NBP2-61784] - Analysis of paraffin-embedded renal tissues using PLD2 mouse mAb with DAB staining.



ELISA: Phospholipase D2 Antibody (7E4D9) [NBP2-61784] - Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



2-DG inhibited glycolysis and mTOR pathway in OLP-derived T cells. OLP-derived T cells were activated with 1  $\mu$ g/ml anti-CD3 mAb and 2  $\mu$ g/ml anti-CD28 mAb for 72 h, then cultured with 1 mM or 5 mM 2-DG for 24 h. 2-DG was dissolved in DMSO. DMSO at a concentration of 0.1% (v/v) was used as the solvent control. (A) Representative images of immunofluorescent staining for LDHA expression in T cells. The fluorescence intensity of LDHA was decreased in the 2-DG groups. 5 mM 2-DG group showed a weaker fluorescence than 1 mM 2-DG group. Red: LDHA. Blue: nucleus. Bar: 50  $\mu$ m for  $\times$ 400. (B) Representative images of Western Blot detection for p-mTOR, mTOR, p-4E-BP1, 4E-BP1, HIF1 $\alpha$  and PLD2 expression. Grey scale analysis revealed that the ratios of p-mTOR/mTOR, p-4E-BP1/4E-BP1, HIF1 $\alpha$ / $\beta$ -actin and PLD2/ $\beta$ -actin were decreased in 5 mM 2-DG group, rather than in 1 mM 2-DG group. \*\*\*,  $p < 0.001$  Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34672419>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Wang F, Zhang J, Zhou G. 2-Deoxy-D-glucose impedes T cell-induced apoptosis of keratinocytes in oral lichen planus *Journal of cellular and molecular medicine* 2021-10-21 [PMID: 34672419] (WB, Human)

Wang F, Zhang J, Zhou G HIF1 alpha /PLD2 axis linked to glycolysis induces T-cell immunity in oral lichen planus *Biochim Biophys Acta Gen Subj* 2020-01-01 [PMID: 32205175] (WB, ICC/IF, IF/IHC, Human)





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### **Products Related to NBP2-61784**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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