

# Product Datasheet

## PLTP Antibody - BSA Free NB400-106

Unit Size: 0.2 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NB400-106**

PLTP Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.2 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera
<b>Target Molecular Weight</b>	55 kDa

**Product Description**

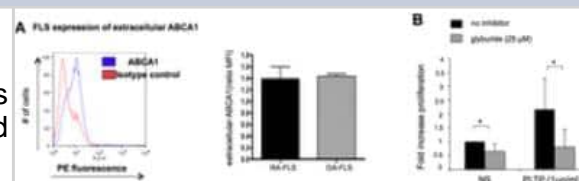
<b>Description</b>	Novus Biologicals Rabbit PLTP Antibody - BSA Free (NB400-106) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-PLTP Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5360
<b>Gene Symbol</b>	PLTP
<b>Species</b>	Human, Mouse
<b>Immunogen</b>	A partial peptide of human PLTP. [UniProt# P55058]

**Product Application Details**

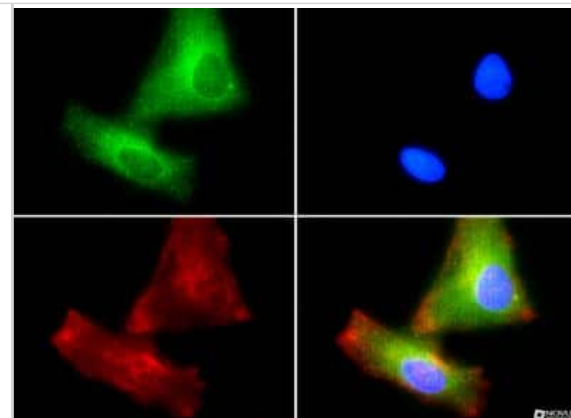
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500, Immunohistochemistry 1:200, Immunocytochemistry/Immunofluorescence 1:50-1:100, Immunohistochemistry-Paraffin 1:200
<b>Application Notes</b>	This PLTP antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded sections and Western Blot, where a band is seen at ~55kDa representing PLTP. It does not exhibit neutralizing activity. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

**Images**

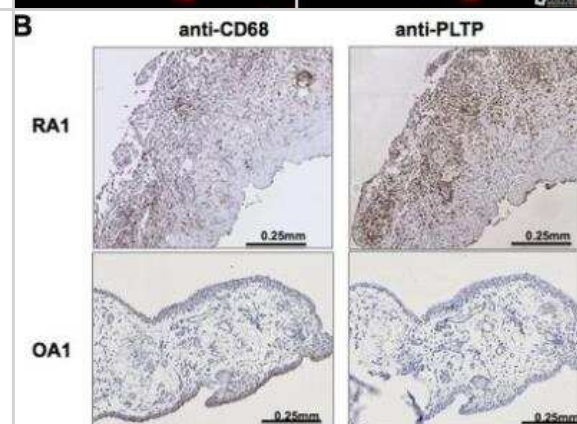
Western Blot: PLTP Antibody [NB400-106] - Activation of PLTP in STAT3 pathway. RA-FLS were stimulated for 24 hours with rhPLTP at the indicated concentrations. Western blot analyses analyzed cell lysates for phosphorylation of STAT3 (Tyr705). Band intensities were normalized to corresponding STAT3 band intensities. Representative Western blots are shown (n = 3). Citation: Audo R, Deckert V, Daien CI, Che H, Elhmioui J, Lemaire S, et al. (2018) PhosphoLipid transfer protein (PLTP) exerts a direct pro-inflammatory effect on rheumatoid arthritis (RA) fibroblasts-like-synoviocytes (FLS) independently of its lipid transfer activity. PLoS ONE 13(3): e0193815.



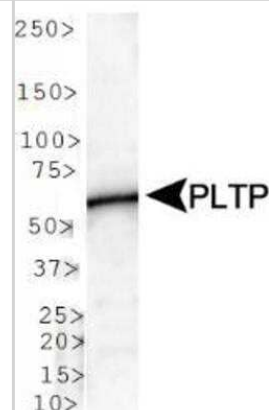
**Immunocytochemistry/Immunofluorescence:** PLTP Antibody [NB400-106] - PLTP antibody was tested in HeLa cells with FITC (green). Nuclei and alpha-tubulin were counterstained with Dapi (blue) and Dylight 550 (red).



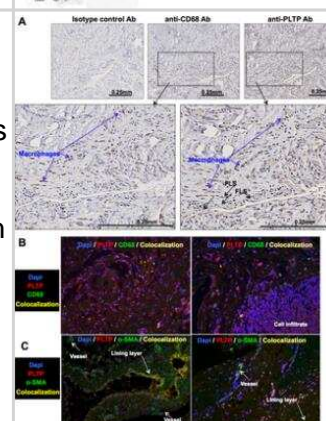
**Immunohistochemistry:** PLTP Antibody [NB400-106] - PLTP expression and activity in RA and OA joints and 3OH-myristate levels in synovial fluid of RA and OA patients. Immunohistological analysis of PLTP expression in synovial tissue from 5 RA and 6 OA patients stained for PLTP and macrophages (CD68+ cells); All RA synovial tissue showed positive stainings while only 2 out of 6 OA tissues were positive for PLTP staining. Representative stainings are shown. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29565987/>) licensed under a CC-BY license.



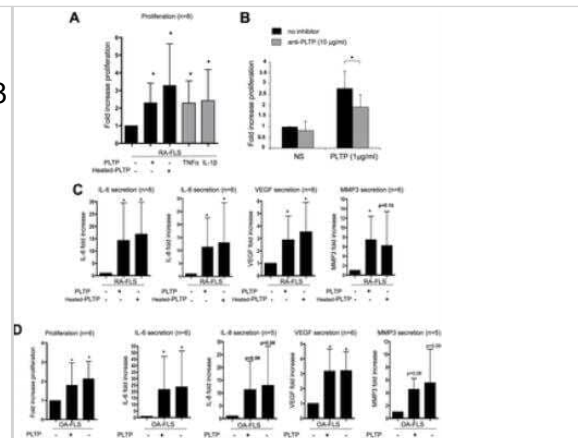
**Western Blot:** PLTP Antibody [NB400-106] - WB analysis of PLTP in human brain lysate.



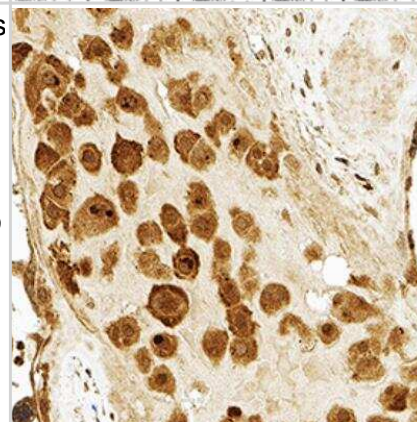
**Immunohistochemistry:** PLTP Antibody [NB400-106] - PLTP antibody expression in RA synovial tissues. (A) Immuno-histological analyses used RA patients synovial tissue sections (n=5). They were stained for PLTP or macrophages (CD68+ cells). Blue arrows indicate macrophages (non-exhaustive), determined as CD68+ cells. FLS are determined with CD68+ staining (black arrow; non-exhaustive) and morphological features. (B, C) Double staining displays localization (n = 3) of PLTP with macrophages (CD68+) in B or RA-FLS (alpha-SMA+) in C. Overlay is shown to visualize co-localization of PLTP. All magnification and fluorescence analysis at 20x. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29565987/>) licensed under a CC-BY license.



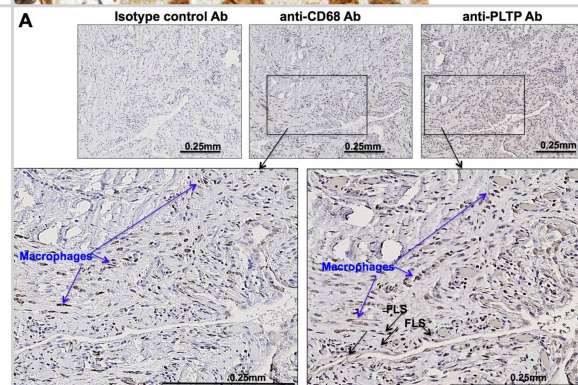
**Immunohistochemistry: PLTP Antibody [NB400-106] - Recombinant PLTP antibody induced cytokine production and FLS proliferation, independent of its lipid transfer ability.** (A) RA-FLS were stimulated for 48 hours with PLTP or heat inactivated-PLTP and proliferation was evaluated during the final day of stimulation using thymidine incorporation. (B) Blockade of PLTP decreased the effect of rhPLTP on FLS proliferation. (C) PLTP impact on RA-FLS cytokine production. (D) OA-FLS were treated with either native PLTP or heated-PLTP and analyzed for cytokine production and proliferation. Citation: Audo R, Deckert V, Daïen CI, Che H, Elhmioui J, Lemaire S, et al. (2018) PhosphoLipid transfer protein (PLTP) exerts a direct pro-inflammatory effect on rheumatoid arthritis (RA) fibroblasts-like-synoviocytes (FLS) independently of its lipid transfer activity. PLoS ONE 13(3): e0193815.



**Immunohistochemistry-Paraffin: PLTP Antibody [NB400-106] - PLTP was detected in immersion fixed paraffin-embedded sections of human placenta using Rabbit Anti-Human PLTP polyclonal Antibody (Catalog # NB400-106) at 1:300 for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the cytoplasm in decidual cells.**



**Immunohistochemistry: PLTP Antibody [NB400-106] - PLTP expression in RA synovial tissues.**For immuno-histological analysis, (A) synovial tissue sections from RA patients (n = 5) were stained for PLTP or macrophages (CD68+ cells). Representative images obtained for immunohistological staining are shown. Blue arrows show macrophages (non-exhaustive), determined as CD68+ cells. FLS are determined with morphological features & CD68+ staining (black arrow; non-exhaustive). (B, C) Double staining was performed to visualize localization (n = 3) of PLTP with macrophages (CD68+) (B) or RA-FLS ( $\alpha$ -SMA+) (C). Fluorescence was analyzed at 20x magnification. Overlay is shown to visualize co-localization of PLTP in macrophages (CD68+) (B) or RA-FLS ( $\alpha$ -SMA+) (C) or PLTP expression in infiltrate. Original magnification: 20x. Separate images can be found in S1 Fig. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0193815>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





## Publications

Contreras-Duarte S, Chen P, Andia M et al. Attenuation of atherogenic apo B-48-dependent hyperlipidemia and high density lipoprotein remodeling induced by vitamin C and E combination and their beneficial effect on lethal ischemic heart disease in mice. *Biol. Res.* 2018-09-15 [PMID: 30219096] (WB, Mouse)

Ochieng P, Nath S, Macarulay R et al. Phospholipid transfer protein and alpha-1 antitrypsin regulate Hck kinase activity during neutrophil degranulation. *Sci Rep.* 2018-10-18 [PMID: 30337619] (WB, Human)

Audo R, Deckert V, Daien CI et al. PhosphoLipid transfer protein (PLTP) exerts a direct pro-inflammatory effect on rheumatoid arthritis (RA) fibroblasts-like-synoviocytes (FLS) independently of its lipid transfer activity. *PLoS One* 2018-03-22 [PMID: 29565987] (IHC-P, Human)

Smagris E, Gilyard S, BasuRay S et al. Inactivation of Tm6sf2, a Gene Defective in Fatty Liver Disease, Impairs Lipidation but Not Secretion of Very Low Density Lipoproteins. *J Biol Chem* 2016-05-13 [PMID: 27013658]

Pahl MV, Ni Z, Sepassi L et al. Plasma phospholipid transfer protein, cholesteryl ester transfer protein lecithin:cholesterol acyltransferase in end-stage renal disease (ESRD). *Nephrol Dial Transplant*;24(8):2541-2546. 2009-01-01 [PMID: 19297356]

He Y, Greene DJ, Kinter M et al. Control of cholesteryl ester transfer protein activity by sequestration of lipid transfer inhibitor protein in an inactive complex. *J Lipid Res*;49(7):1529-1537. 2008-01-01 [PMID: 18369235] (WB, Human)

Valenta, DT et al. Atheroprotective potential of macrophage-derived phospholipid transfer protein in low-density lipoprotein receptor-deficient mice is overcome by apolipoprotein AI overexpression. *Arterioscler. Thromb. Vasc. Biol.* 26:1572-1578. 2006-01-01 [PMID: 16675720] (IF/IHC, Mouse)

Desrumaux CM, Mak PA, Boisvert WA et al. Phospholipid transfer protein is present in human atherosclerotic lesions and is expressed by macrophages and foam cells. *J Lipid Res*;44(8):1453-61. 2003-08-01 [PMID: 1273030] (IHC-P, Human)





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General: novus@novusbio.com

### **Products Related to NB400-106**

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NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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