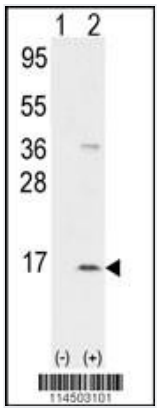
Platelet Basic Protein (PBP) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Platelet Basic Protein (PBP), Polyclonal Antibody
Full Product Name	Platelet Basic Protein, NT (PBP, C-X-C Motif Chemokine 7, Leukocyte-derived Growth Factor, LDGF, Macrophage-derived Growth Factor, MDGF, CXCL7, Small-inducible Cytokine B7) (MaxLight 405)
Product Gene Name	anti-PBP antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human PPBP.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	10.3 kDa (95aa), confirmed by MALDI-TOF
OMIM	121010
3D Structure	ModBase 3D Structure for P02775
Immunogen	Synthetic peptide selected from the N-terminal region of human PPBP (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-PBP antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-PBP antibody	Western Blot (WB), FLISA
Application Notes for anti-PBP antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PBP antibody	MBS6491256 is an antibody targeting PBP. Also known as Platelet Basic Protein, NT (PBP, C-X-C Motif Chemokine 7, Leukocyte-derived Growth Factor, LDGF, Macrophage-derived Growth Factor, MDGF, CXCL7, Small-inducible Cytokine B7) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PBP antibody	1. Majumdar S., J. Biol. Chem. 266:5785-5789(1991). 2. Zhang C., Blood 98:610-617(2001). 3. Aivado, M., Proc. Natl. Acad. Sci. USA 104(4), 1307-1312 (2007).
Other Notes	Small volumes of anti-PBP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PBP antibody
Western blot analysis of PPBP (arrow) using rabbit polyclonal PPBP Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PPBP gene (Lane 2) (Origene Technologies).(8ug/ml)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PBP. It may not necessarily be applicable to this product.

NCBI GI #	4505981
NCBI GeneID	5473
NCBI Accession #	NP_002695
UniProt Primary Accession #	P02775
UniProt Secondary Accession #	Q6IBJ8; B2R5F3
UniProt Related Accession #	P02775
GenBank Nucleotide #	NM_002704.3
NCBI Official Full Name	platelet basic protein preproprotein
NCBI Official Synonym Full Names	pro-platelet basic protein
NCBI Official Symbol	PPBP
NCBI Official Synonym Symbols	PBP; TC1; TC2; TGB; LDGF; MDGF; TGB1; B-TG1; CTAP3; CXCL7; NAP-2; SCYB7; THBGB; LA-PF4; THBGB1; Beta-TG; CTAPIII; CTAP-III
UniProt Protein Name	Platelet basic protein
UniProt Synonym Protein Names	C-X-C motif chemokine 7; Leukocyte-derived growth factor; LDGF; Macrophage-derived growth factor; MDGF; Small-inducible cytokine B7Cleaved into the following 10 chains:Connective tissue-activating peptide III; CTAP-III; Alternative name(s):; LA-PF4; Low-affinity platelet factor IV
Protein Family	Beta-lactam-inducible penicillin-binding protein
UniProt Gene Name	PPBP
UniProt Synonym Gene Names	CTAP3; CXCL7; SCYB7; TGB1; THBGB1; PBP; LDGF; MDGF; CTAP-III; CTAP-III(1-81); Beta-TG; NAP-2(74); NAP-2(73); NAP-2; NAP-2(1-66); NAP-2(1-63)
UniProt Entry Name	CXCL7_HUMAN
NCBI Protein Information	platelet basic protein

NCBI Summary for PBP	The protein encoded by this gene is a platelet-derived growth factor that belongs to the CXC chemokine family. This growth factor is a potent chemoattractant and activator of neutrophils. It has been shown to stimulate various cellular processes including DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by synovial cells. The protein also is an antimicrobial protein with bactericidal and antifungal activity. [provided by RefSeq, Nov 2014]
UniProt Comments for PBP	PPBP: LA-PF4 stimulates DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by human synovial cells. NAP-2 is a ligand for CXCR1 and CXCR2, and NAP-2, NAP-2(73), NAP-2(74), NAP-2(1-66), and most potent NAP-2(1-63) are chemoattractants and activators for neutrophils. TC-1 and TC-2 are antibacterial proteins, in vitro released from activated platelet alpha-granules. CTAP-III(1-81) is more potent than CTAP-III desensitize chemokine-induced neutrophil activation. Belongs to the intercrine alpha (chemokine CxC) family. Protein type: Chemokine; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q12-q13 Cellular Component: extracellular space; extracellular region Molecular Function: growth factor activity; chemokine activity; CXCR chemokine receptor binding; glucose transmembrane transporter activity Biological Process: platelet activation; positive regulation of leukocyte chemotaxis; response to lipopolysaccharide; glucose transport; leukocyte migration during inflammatory response; regulation of cell proliferation; G-protein coupled receptor protein signaling pathway; platelet degranulation; positive regulation of cell division; defense response to bacterium; immune response; inflammatory response; blood coagulation
Research Articles on PBP	**1.** These results suggest that aberrant CXCL7 expression in peripheral blood cells is induced by renal cell carcinoma cells and may serve as a novel biomarker in the diagnosis of renal cell carcinoma .
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