# Pro-Platelet Basic Protein (PPBP) Antibody – Chicken Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Pro-Platelet Basic Protein (PPBP), Polyclonal Antibody |
| **Full Product Name** | Pro-Platelet Basic Protein (PPBP) |
| **Product Gene Name** | anti-PPBP antibody |
| **Product Synonym Names** | Anti -Pro-Platelet Basic Protein (PPBP) |
| **Clonality** | Polyclonal |
| **Isotype** | IgY |
| **Host** | Chicken |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Glycerol free. |
| **Purity/Purification** | Affinity Purified<br>Purified by immunoaffinity chromatography. |
| **Specificity** | Recognizes human Pro-Platelet Basic Protein (PPBP). |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. For long-term storage, store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer. |
| **Molecular Weight** | 13,894 Da |
| **Chromosome Location** | Chromosome: 4; NC_000004.11 (74852156..74853907, complement). Location: 4q12-q13 |
| **OMIM** | 121010 |
| **3D Structure** | ModBase 3D Structure for P02775 |
| **Immunogen** | Synthetic peptide corresponding to aa50-96 |
| **Product Categories/Family for anti-PPBP antibody** | Antibodies; Abs to Proteins |
| **Applications Tested/Suitable for anti-PPBP antibody** | ELISA (EL/EIA), Western Blot (WB) |
| **Application Notes for anti-PPBP antibody** | Suitable for use in ELISA and Western Blot.<br>Dilution: Western Blot: 1:1000-1:2000 |
| **Related Product Information for anti-PPBP antibody** | MBS612587 is an antibody targeting PPBP. Also known as Pro-Platelet Basic Protein (PPBP). Reactive in Human. Host: Chicken. |
| **Other Notes** | Small volumes of anti-PPBP 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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 4505981 |
| **NCBI GeneID** | 5473 |

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| **NCBI Accession #** | NP_002695.1 |
| **UniProt Primary Accession #** | P02775 |
| **UniProt Secondary Accession #** | Q6IBJ8; B2R5F3 |
| **UniProt Related Accession #** | P02775; AAB46877 |
| **GenBank Nucleotide #** | NM_002704.3 |
| **NCBI Official Full Name** | platelet basic protein preproprotein |
| **NCBI Official Synonym Full Names** | pro-platelet basic protein (chemokine (C-X-C motif) ligand 7) |
| **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; SCAR10; 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** | Platelet basic protein |
| **UniProt Gene Name** | PPBP |
| **UniProt Synonym Gene Names** | CTAP3; CXCL7; SCYB7; TGB1; THBGB1 |
| **UniProt Entry Name** | CXCL7_HUMAN |
| **NCBI Protein Information** | platelet basic protein; thrombocidin 1; thrombocidin 2; OTTHUMP00000160477; beta-thromboglobulin; CXC chemokine ligand 7; C-X-C motif chemokine 7; thromboglobulin, beta-1; small inducible cytokine B7; small-inducible cytokine B7; leukocyte-derived growth factor; low-affinity platelet factor IV; neutrophil-activating peptide 2; neutrophil-activating peptide-2; macrophage-derived growth factor; connective tissue-activating peptide III; small inducible cytokine subfamily B, member 7 |
| **NCBI Summary for PPBP** | 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. [provided by RefSeq] |
| **UniProt Comments for PPBP** | 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.<br><br>Protein type: Secreted; Secreted, signal peptide; Chemokine<br><br>Chromosomal Location of Human Ortholog: 4q12-q13<br><br>Cellular Component: extracellular space; extracellular region<br><br>Molecular Function: growth factor activity; chemokine activity; CXCR chemokine receptor binding; glucose transmembrane transporter activity<br><br>Biological Process: platelet activation; response to lipopolysaccharide; positive regulation of leukocyte chemotaxis; 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 |

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| **Research Articles on PPBP** | **1.** Using microdialysis techniques we detected beta-TG release during an inflammatory response. We conclude that local platelet activation is induced by the heating stimulus. |
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