

# Native Human PPBP

**Cat. No.** PPBP-30279TH **Lot. No.** (See product label)

## SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | Full length native Human NAP2 prepared from the supernatant of activated platelets                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>         | 48-128 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>           | 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. |
| <b>Form</b>                  | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>                | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage buffer</b>        | Preservative: None<br>Constituents: 25mM HEPES, 150mM Sodium chloride, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sequence Similarities</b> | Belongs to the intercrine alpha (chemokine CxC) family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| Full Length                | Full L.                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Name</b>           | PPBP pro-platelet basic protein (chemokine (C-X-C motif) ligand 7) [ Homo sapiens ]                                                                                                                                                                                                                                   |
| <b>Official Symbol</b>     | PPBP                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | PPBP; pro-platelet basic protein (chemokine (C-X-C motif) ligand 7); THBGB1; platelet basic protein; b TG1; Beta TG; beta thromboglobulin; connective tissue activating peptide III; CTAP3; CTAPIII; CXCL7; LA PF4; LDGF; MDGF; NAP 2; NAP 2 L1; neutrophil act                                                       |
| <b>Gene ID</b>             | 5473                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_002704                                                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>      | NP_002695                                                                                                                                                                                                                                                                                                             |
| <b>MIM</b>                 | 121010                                                                                                                                                                                                                                                                                                                |
| <b>Uniprot ID</b>          | P02775                                                                                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b> | 4q12-q13                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; |

**Function**

chemokine activity; glucose transmembrane transporter activity; growth factor activity;

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