Platelet Basic (PPBP) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Platelet basic protein (PPBP), ELISA Kit
Full Product Name	Human Platelet basic protein ELISA Kit
Product Gene Name	PPBP elisa kit
Product Synonym Names	Platelet basic protein; PBP; C-X-C motif chemokine 7; Leukocyte-derived growth factor; LDGF; Macrophage-derived growth factor; MDGF; Small-inducible cytokine B7; PPBP; CTAP3; CXCL7; SCYB7
Species Reactivity	Human
Samples	Serum, plasma, tissue homogenates and other biological fluids.
Detection Range	15.6-1000 pg/mL
Sensitivity	Less than 3.9 pg/mL
Preparation and Storage	Store at 4 degree C
Molecular Weight	13,894 Da
OMIM	M54995 mRNA
3D Structure	ModBase 3D Structure for P02775
Assay Time	3-5h
Sample Volume	100T
Detection Wavelength	450 nm
Related Product Information for PPBP elisa kit	MBS9424969 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Platelet basic protein (PPBP) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PPBP. The ELISA analytical biochemical technique of the MBS9424969 kit is based on PPBP antibody-PPBP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PPBP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PPBP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of PPBP elisa kit 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.

NCBI GI #	4505981
NCBI GeneID	5473
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
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
Protein Family	Platelet basic 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)
NCBI Protein Information	platelet basic protein
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. The protein also is an antimicrobial protein with bactericidal and antifungal activity. [provided by RefSeq, Nov 2014]
UniProt Comments for 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.
Research Articles on PPBP	**1.** NMR and modeling studies indicated that glycosaminoglycans (GAG) heparin binding to the heterodimer is distinctly different from the CXC chemokine ligand 7 (CXCL7) monomer.
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