

ARG81725 Rat CXCL7 / NAP2 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81725-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81725-002	Standard	2 X 10 ng/vial	4°C
ARG81725-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81725-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81725-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81725-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81725-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81725-008	25X Wash buffer	20 ml	4°C
ARG81725-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81725-010	STOP solution	10 ml (Ready to use)	4°C
ARG81725-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81725 Rat CXCL7 / NAP2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat CXCL7 / NAP2 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CXCL7 / NAP2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.7%; Inter-Assay CV: 7.2%
Alternate Names	CTAP3; Platelet basic protein; SCYB7; Macrophage-derived growth factor; THBGB; CTAPIII; C-X-C motif chemokine 7; Beta-TG; NAP-2; Small-inducible cytokine B7; TGB; THBGB1; CTAP-III; PBP; MDGF; TC2; Low-affinity platelet factor IV; Leukocyte-derived growth factor; TC1; 74; 73; 1-66; B-TG1; 1-63; CXCL7; TGB1; 1-81; LDGF; LA-PF4

Application Instructions

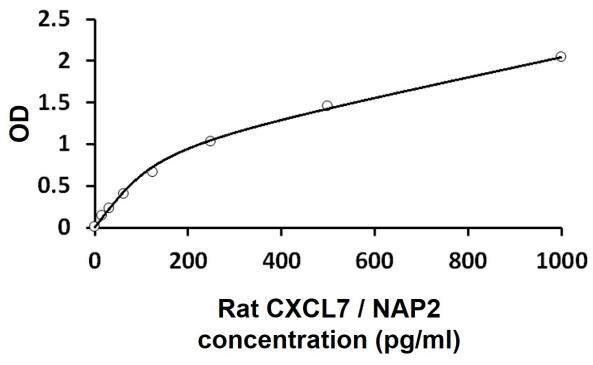
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PPBP
Gene Full Name	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)
Background	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]
Function	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. [UniProt]
Highlight	Related products: CXCL antibodies ; CXCL ELISA Kits ; CXCL Duos / Panels ; CXCL recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	<p>Proteolytic removal of residues 1-9 produces the active peptide connective tissue-activating peptide III (CTAP-III) (low-affinity platelet factor IV (LA-PF4)).</p> <p>Proteolytic removal of residues 1-13 produces the active peptide beta-thromboglobulin, which is released from platelets along with platelet factor 4 and platelet-derived growth factor.</p> <p>NAP-2(1-66) is produced by proteolytical processing, probably after secretion by leukocytes other than neutrophils.</p> <p>NAP-2(73) and NAP-2(74) seem not be produced by proteolytical processing of secreted precursors but are released in an active form from platelets. [UniProt]</p>



ARG81725 Rat CXCL7 / NAP2 ELISA Kit standard curve image

ARG81725 Rat CXCL7 / NAP2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.