



Rabbit Anti-NAP2 antibody

SL20508R

Product Name:	NAP2
Chinese Name:	中性粒细胞活性蛋白2/血小板碱性蛋白抗体
Alias:	B TG1; Beta TG; b-TG1; beta-TG; NAP-2; NAP2; NAP 2; Beta thromboglobulin; Chemokine (C X C motif) ligand 7; Connective tissue activating peptide III; CTAP 3; CTAP III; CTAP3; CTAPIII; CXC chemokine ligand 7; CXCL 7; CXCL7; LA PF 4; LA-PF4; LDGF; Leukocyte derived growth factor; Low affinity platelet factor IV; MDGF; NAP 2; NAP-2; NAP 2 L1; Neutrophil activating peptide 2; PBP; Platelet basic protein; Platelet basic protein precursor; PPBP; Pro platelet basic protein; SCYB7; Small inducible cytokine B7; Small inducible cytokine subfamily B member 7; TC1; TC2; TGB; TGB1; THBGB; THBGB1; Thrombocidin 1; Thrombocidin 2; Thromboglobulin beta 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	14kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse NAP2:1-80/130
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:

[PubMed](#)

Product Detail:

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, May 2010].

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.

Subunit:

Beta-thromboglobulin is a homotetramer.

Subcellular Location:

Secreted.

Post-translational modifications:

Proteolytic removal of residues 1-9 produces the active peptide connective tissue-activating peptide III (CTAP-III) (low-affinity platelet factor IV (LA-PF4)). 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. NAP-2(1-66) is produced by proteolytical processing, probably after secretion by leukocytes other than neutrophils. 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.

Similarity:

Belongs to the intercrine alpha (chemokine CxC) family.

SWISS:

N/A

Gene ID:

57349

Database links:

[Entrez Gene: 5473](#)Human

[Entrez Gene: 57349](#)Mouse

[Entrez Gene: 246358](#)Rat

[Omim: 121010](#)Human

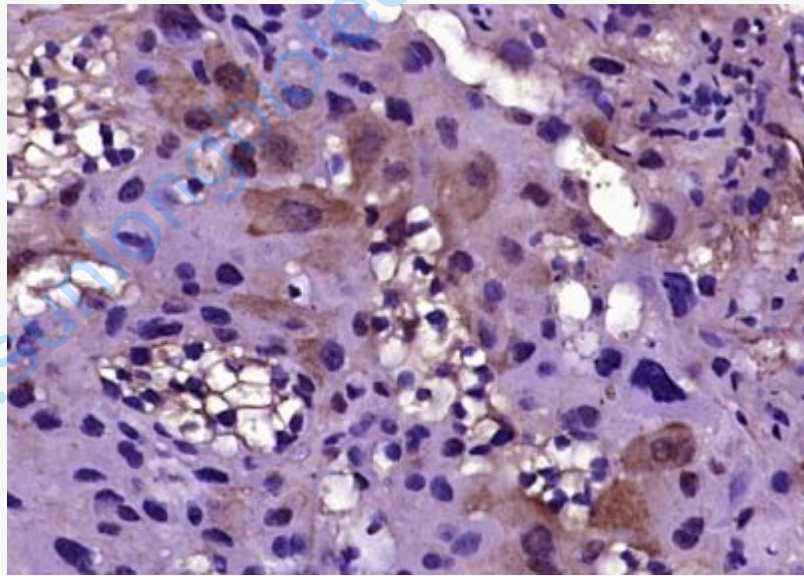
[SwissProt: P02775](#)Human

[Unigene: 2164](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Paraformaldehyde-fixed, paraffin embedded (mouse placenta tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NAP2) Polyclonal Antibody, Unconjugated (SL20508R) at 1:400 overnight at 4°C, followed by operating

	according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.
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