SunLong Biotech Co.,LTD
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Rabbit Anti-GRO Alpha antibody

SL10234R

Product Name	GRO Alpha
Chinese Name	黑色素瘤生长刺激活性蛋白 α/GROa 抗体
Alias	CINC1; GRO-1; CXCL1; C-X-C motif chemokine 1; CALC 1; CALCA; Calcitonin related polypeptide alpha; Catacalcin; CGRP I; CGRP1; CGRPI; Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha); chemokine (C-X-C motif) ligand 1; Chemokine (C-X-C motif) ligand 2; CINC-1; Cxcl1; CXCL2; Cytokine-induced neutrophil chemoattractant 1; Fibroblast secretory protein; Fsp; Gro 1; Gro A; Gro; GRO protein, alpha; Gro1; GRO1 oncogene (melanoma growth stimulating activity, alpha); GRO1 oncogene (melanoma growth-stimulating activity); Gro1 oncogene; GROa; GROA_HUMAN; Growth regulated protein GRO; Growth regulated protein GRO; Growth-regulated alpha protein; Katacalcin; KC; KC chemokine, mouse, homolog of; melanoma growth stimulatory activity alpha; Melanoma growth stimulatory activity; Melanoma growth stimulatory activity, alpha; MGC126648; MGSA alpha; MGSA; MGSA-a; N51; NAP-3; NAP3; Neutrophil-activating protein 3; Platelet-derived growth factor-inducible protein KC; Platelet-derived growth factor-inducible protein KC; Scyb 1; Scyb1; Secretory protein N51; Secretory protein N51; Small inducible cytokine subfamily B, member 1. GROα; GRO α; GRO-α;
Research Area	Tumour Cell biology immunology Growth factors and hormones transcriptional regulatory factor
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, (predicted: Mouse, Rat,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	7.8kDa
Cellular localization	Secretory protein

Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse GRO Alpha: 51-107/107
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	The GRO gene was originally identified by subtractive hybridization studies between normal and tumorigenic Chinese hamster embryo fibroblasts. The hamster cDNA was cloned and used as a probe for cloning of the human GRO cDNA. The GROalpha gene initially cloned from T24 cells and the gene in melanoma cells encoding melanoma growth stimulating protein (MGSA) are identical. Human cells contain three closely related, but distinct GRO genes: GRO alpha, GRO beta, and GRO gamma. GRO beta and GRO gamma share 93% and 82% identity, respectively, with GRO alpha at the nucleotide level. GROs are members of the chemokine alpha family that is characterized by the separation with one amino acid of the first two cysteine residues, C-X-C, in the amino acid sequence. The GRO gene has been mapped to chromosome 4q21. In normal cells, human mRNA GRO expression is found in foreskin fibroblasts, synovial fibroblasts, chondrocytes and osteocytes. Additionally, GRO mRNA has been detected in mammary fibroblasts, mammary epithelial cells, endothelial cells, activated monocytes, macrophages, and neutrophils. Characterization of the GROalpha receptor indicates the presence of low and high affinity receptors on human neutrophils. **Function:** Has chemotactic activity for neutrophils. May play a role in inflammation and exerts its effects on endothelial cells in an autocrine fashion. In vitro, the processed forms GRO-alpha(4-73), GRO-alpha(5-73) and GRO-alpha(6-73) show a 30-fold higher chemotactic activity. **Subcellular Location:** Secreted. **Post-translational modifications:** N-terminal processed forms GRO-alpha(4-73), GRO-alpha(5-73) and GRO-alpha(6-73) are produced by proteolytic cleavage after secretion from peripheral blood monocytes.

Similarity:
Belongs to the intercrine alpha (chemokine CxC) family.

SWISS:
P12850

Gene ID:
14825

Database links:

Entrez Gene: 2919 Human

Entrez Gene: 14825 Mouse

Entrez Gene: 81503 Rat

Omim: 155730 Human

SwissProt: P09341 Human

SwissProt: P12850 Mouse

SwissProt: P14095 Rat

Unigene: 708652 Human

Unigene: 789 Human

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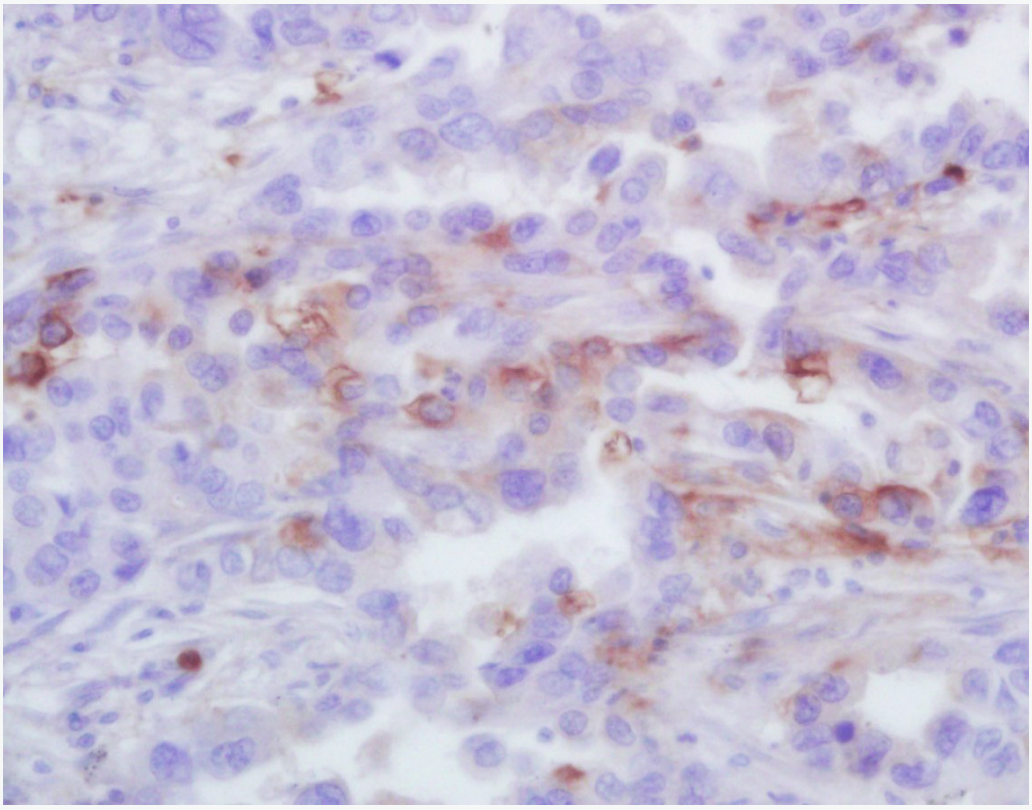
Product Picture



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-GRO Alpha Polyclonal Antibody, Unconjugated(SL10234R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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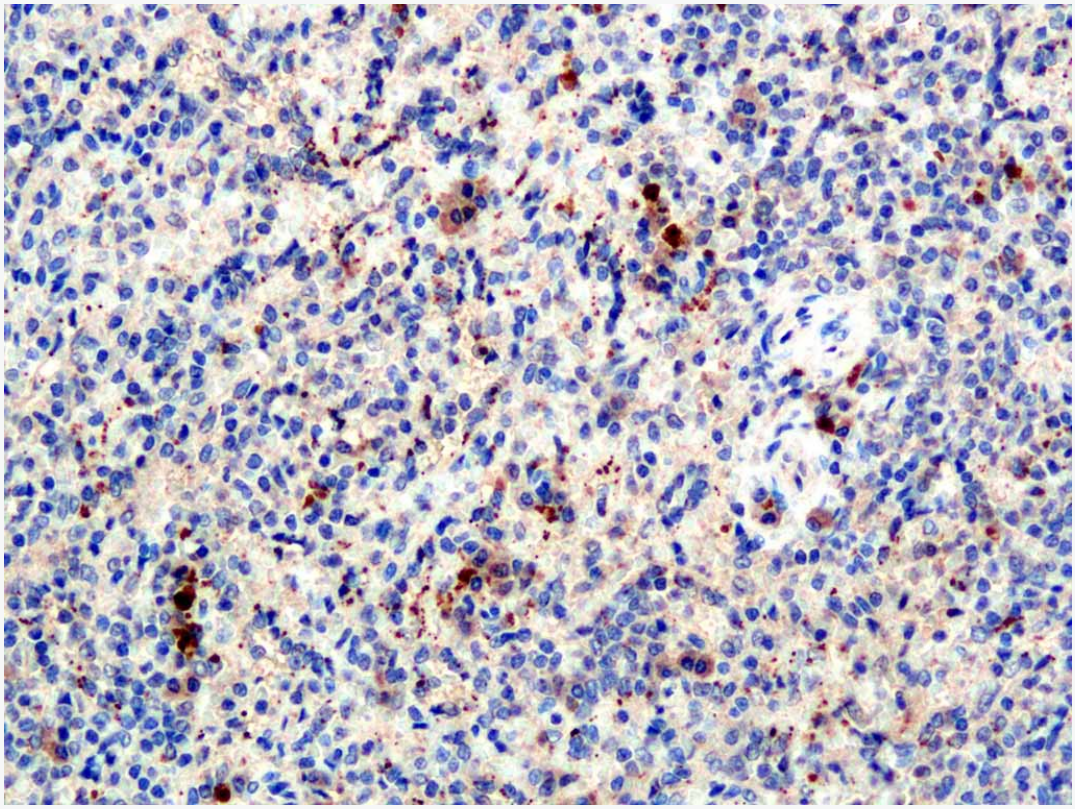

Paraformaldehyde-fixed, paraffin embedded (human spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GRO Alpha) Polyclonal Antibody, Unconjugated (SL10234R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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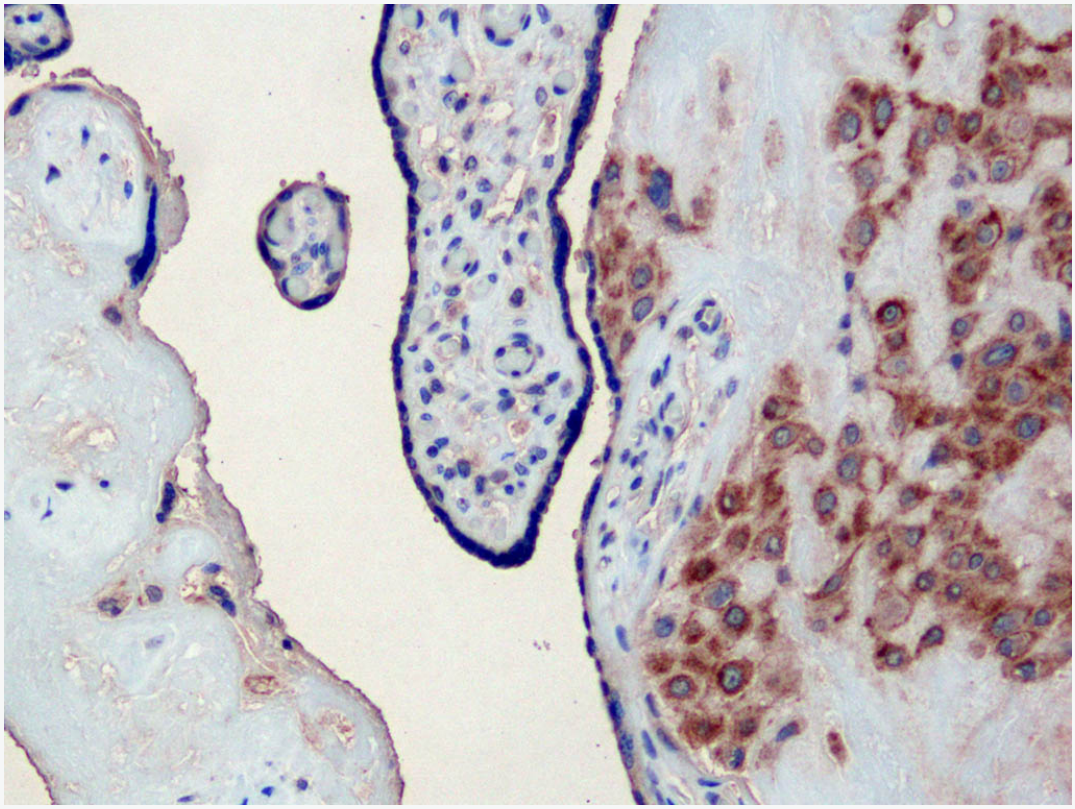

Paraformaldehyde-fixed, paraffin embedded (human placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GRO Alpha) Polyclonal Antibody, Unconjugated (SL10234R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.