



## Rabbit Anti-CXCR3 antibody

SL0341R

<b>Product Name:</b>	CXCR3
<b>Chinese Name:</b>	细胞表面Chemokine受体3抗体
<b>Alias:</b>	CXC-R3; Interferon-inducible protein 10 receptor; IP-10 receptor; C-X-C chemokine receptor type 3; CD 183; CD182; CKR-L2; CD183; CD183 antigen; G protein-coupled receptor 9; Chemokine (C X C motif) receptor 3; Chemokine (C X C) receptor 3; C-X-C Chemokine receptor; CXC Motif Receptor 3; Chemokine CXC Motif Receptor 3; CKRL2; CKR L2; CKR-L2; CMKAR3; G Protein Coupled Receptor 9; G protein-coupled receptor 9; GPR9; CXC-R3; CXCR-3; CXCR3; CXCR3_HUMAN; Interferon-inducible protein 10 receptor; IP-10 receptor; IP10; IP10 R; IP10 receptor; IP10-R; IP10R; MIGR; Mig R; Mig receptor; MIG-R.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	41kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CXCR3:1-100/415<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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](#)

This gene encodes a G protein-coupled receptor with selectivity for three chemokines, termed CXCL9/Mig (monokine induced by interferon-g), CXCL10/IP10 (interferon-g-inducible 10 kDa protein) and CXCL11/I-TAC (interferon-inducible T cell a-chemoattractant). Binding of chemokines to this protein induces cellular responses that are involved in leukocyte traffic, most notably integrin activation, cytoskeletal changes and chemotactic migration. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. One of the isoforms (CXCR3-B) shows high affinity binding to chemokine, CXCL4/PF4 (PMID:12782716). [provided by RefSeq, Jun 2011].

**Function:**

Receptor for CXCL9, CXCL10 and CXCL11 and mediates the proliferation of human mesangial cells (HMC).

Isoform 2 is a receptor for CXCL4 and also mediates the inhibitory activities of CXCL9, CXCL10 and CXCL11 on the growth of human microvascular endothelial cells (HMVEC). Interaction with CXCL4 or CXCL10 leads to activation of the p38MAPK pathway and contributes to inhibition of angiogenesis. Overexpression in renal cancer cells down-regulates expression of the anti-apoptotic protein HMOX1 and promotes apoptosis.

Isoform 3 mediates the activity of CXCL11.

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein.

**Tissue Specificity:**

Isoform 1 and isoform 2 are mainly expressed in heart, kidney, liver and skeletal muscle. Isoform 1 is also expressed in placenta.

**Post-translational modifications:**

Sulfation on Tyr-27 and Tyr-29 is essential for CXCL10 binding and subsequent signal transduction induction.

N-glycosylated.

**Similarity:**

Belongs to the G-protein coupled receptor 1 family.

**SWISS:**

P49682

**Gene ID:**

2833

**Database links:**

[Entrez Gene: 2833](#)Human

**Product Detail:**

[Omid: 300574](#)Human

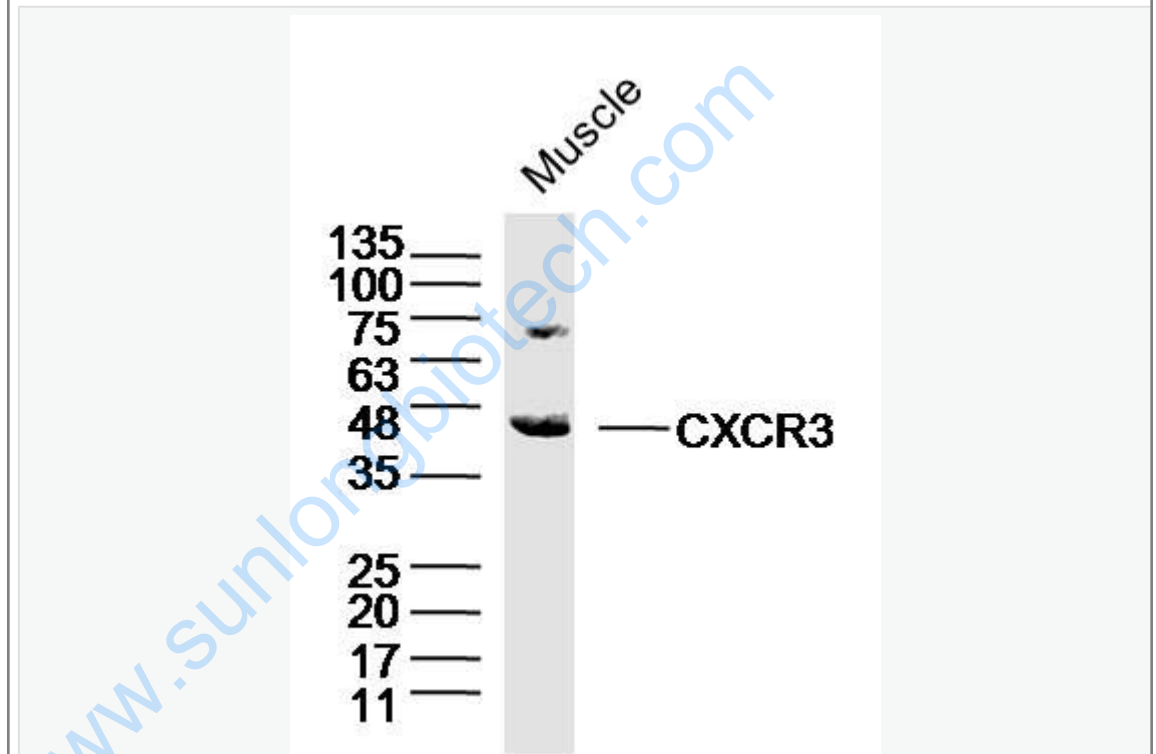
[SwissProt: P49682](#)Human

[Unigene: 198252](#)Human

**Important Note:**

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

Picture:



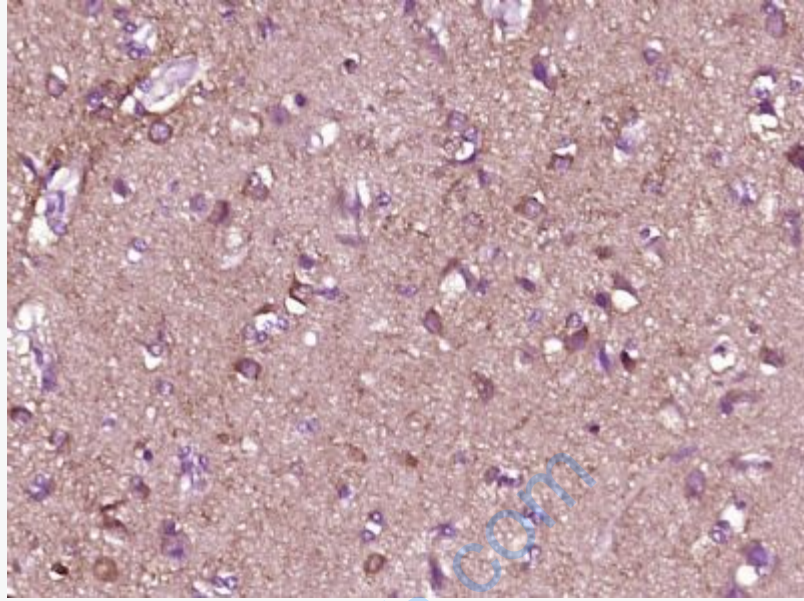
Sample: Muscle(Mouse)Lysate at 40 ug

Primary: Anti-CXCR3(SL0341R)at 1/300 dilution

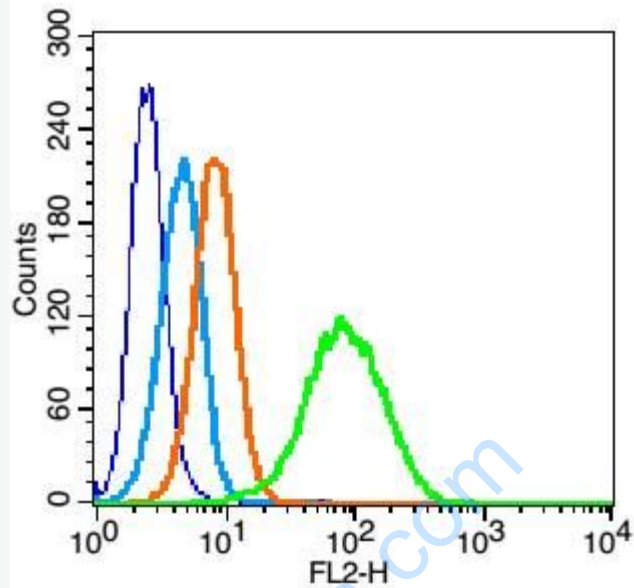
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 41kD

Observed band size: 43kD



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); 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 (CXCR3) Polyclonal Antibody, Unconjugated (SL0341R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: U937 (blue).

Primary Antibody: Rabbit Anti- CXCR3 antibody(SL0341R), Dilution: 1ug in 100 uL 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions );

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

#### Protocol

The cells were fixed with 2% paraformaldehyde (10 min). Primary antibody (SL0341R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.