

## Product Datasheet

### CXCR4 Rabbit Polyclonal Antibody (orb10305)

<b>Catalog Number</b>	orb10305
<b>Category</b>	Antibodies
<b>Description</b>	CXCR4 Rabbit Polyclonal Antibody
<b>Target</b>	CXCR4
<b>Clonality</b>	Polyclonal
<b>Species/Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Mouse, Rat
<b>Predicted Reactivity</b>	Bovine, Rabbit
<b>Form/Appearance</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Buffer/Preservatives</b>	0.01M TBS (pH7.4) with 1% rAlbumin, 0.02% Proclin300 and 50% Glycerol.
<b>Purification</b>	Affinity purified by Protein A
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from the middle of human CXCR4 (1-38/352aa)
<b>UniProt ID</b>	<b>P61073</b>
<b>RRID</b>	AB_10753279

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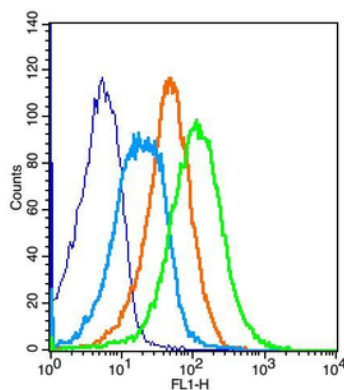
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<b>MW</b>	44 kDa
<b>Tested applications</b>	IF, IHC-Fr, IHC-P, WB
<b>Dilution range</b>	WB=1:500-2000, IHC-P=1:100-500, IHC-F=1:100-500, IF=1:100-500
<b>Antibody Type</b>	Primary Antibody
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



Blank control: mouse splenocytes (blue), Isotype Control Antibody: Rabbit IgG (orange), Secondary Antibody: Goat anti-rabbit IgG-FITC (white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA, Primary Antibody Dilution: 1 µl in 100 µL 1X PBS containing 0.5% BSA (green).

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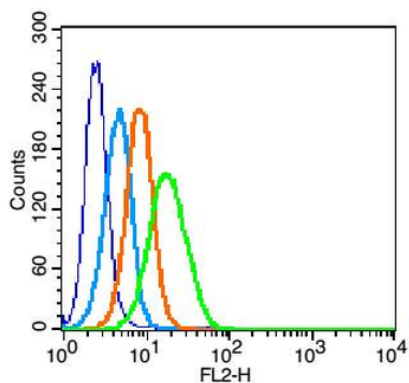
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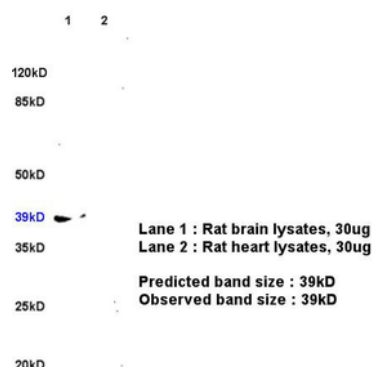
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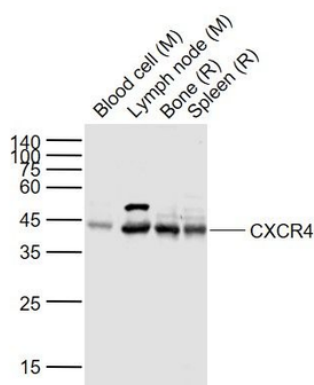
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Blank control: U937 (blue). Primary Antibody: Rabbit Anti-CXCR4 antibody (orb10305), Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA, Isotype Control Antibody: Rabbit IgG (orange), used under the same conditions. Secondary Antibody: Goat anti-rabbit 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 (orb10305, 1 µg/1x10<sup>6</sup> cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% 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 20000 events was performed.



Sample: Brain (Rat) Lysate at 30 ug, Heart (Rat) Lysate at 30 ug, Primary: Anti-CXCR4 (orb10305) at 1/200 dilution, Secondary: HRP conjugated Goat-Anti-rabbit IgG (orb572747) at 1/3000 dilution, Predicted band size: 39 kD, Observed band size: 39 kD.



Sample: Lane 1: Blood cell (Mouse) Lysate at 40 ug, Lane 2: Lymph node (Mouse) Lysate at 40 ug, Lane 3: Bone (Rat) Lysate at 40 ug, Lane 4: Spleen (Rat) Lysate at 40 ug, Primary: Anti-CXCR4 at 1/1000 dilution, Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution, Predicted band size: 45 kD, Observed band size: 44 kD.

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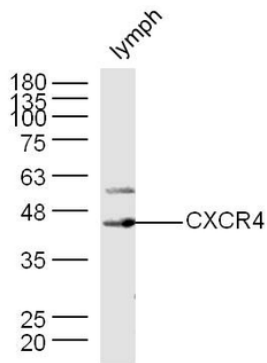
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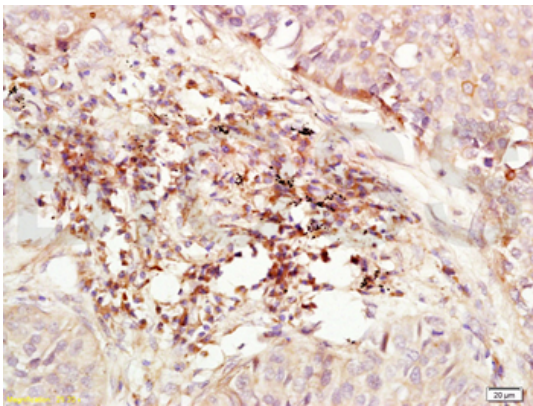
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Sample: Lymph node (Mouse) Lysate at 40 ug, Primary: Anti-CXCR4 (orb10305) at 1/300 dilution, Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution, Predicted band size: 40 kD, Observed band size: 40 kD.



Tissue/cell: human lung carcinoma, 4% Paraformaldehyde-fixed and paraffin-embedded, Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15 min, Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min, Blocking buffer (normal goat serum) at 37°C for 20 min, Incubation: Anti-CD184/CXCR4 Polyclonal Antibody, Unconjugated (orb10305) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

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