

# Product Datasheet

## CCR7 Antibody (SR36-04)

### NBP2-67324

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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#### Publications: 2

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**NBP2-67324**

CCR7 Antibody (SR36-04)

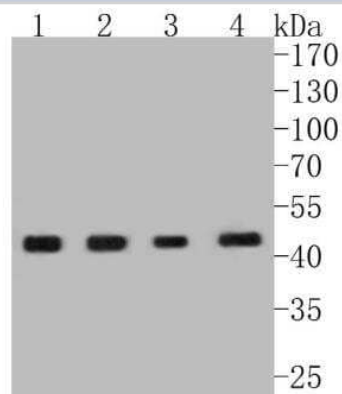
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SR36-04
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit CCR7 Antibody (SR36-04) (NBP2-67324) is a recombinant monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-CCR7 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1236
Gene Symbol	CCR7
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within Human CCR7 aa 13-62 / 378. (SwissProt: P32248 Human; SwissProt: P47774 Mouse; Unigene:229736 Rat)

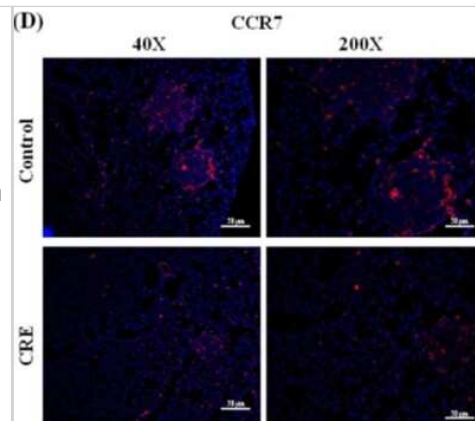
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:500-1:5000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:200, Immunoprecipitation, Immunohistochemistry-Paraffin 1:200, Knockdown Validated
Application Notes	IP-Assay-dependent

**Images**

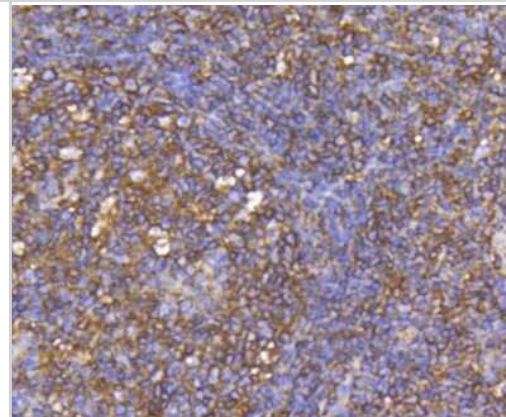
Western Blot: CCR7 Antibody (SR36-04) [NBP2-67324] - Analysis of CCR7 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: Jurkat cell lysate Lane 2: MCF-7 cell lysate Lane 3: PC-12 cell lysate Lane 4: Daudi cell lysate



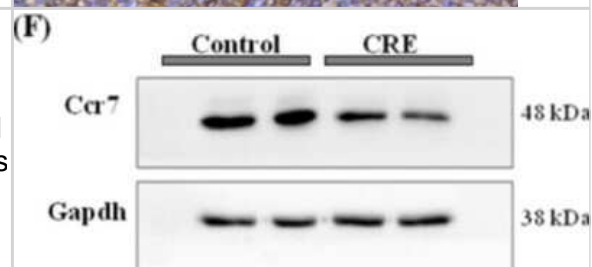
Immunocytochemistry/Immunofluorescence: CCR7 Antibody (SR36-04) [NBP2-67324] - Gross and histological appearance of lung excised from 13 weeks of age PyMT transgenic females. CRE treated PyMT transgenic females showed decreased frequency of mammary tumor-derived lung metastases. Immunohistochemistry staining against Ccr7 in lung tissues was done and representative images of tissue sections from each group were taken at 200X and 40X magnification. Scale bars = 50um. Histogram data was presented as mean +/- SEM. \*  $p < 0.05$  vs. control. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2072-6643/11/2/410>), licensed under a CC-BY license.



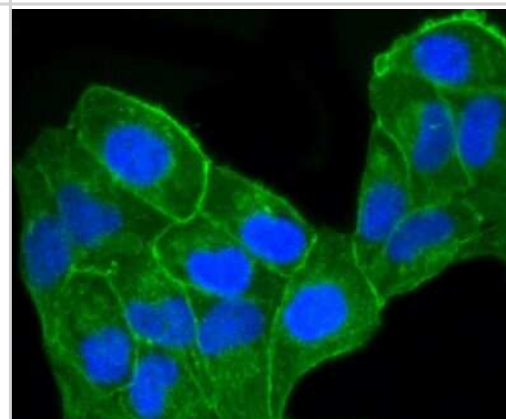
Immunohistochemistry-Paraffin: CCR7 Antibody (SR36-04) [NBP2-67324] - Analysis of paraffin-embedded human tonsil tissue using anti-CCR7 antibody. Counter stained with hematoxylin.



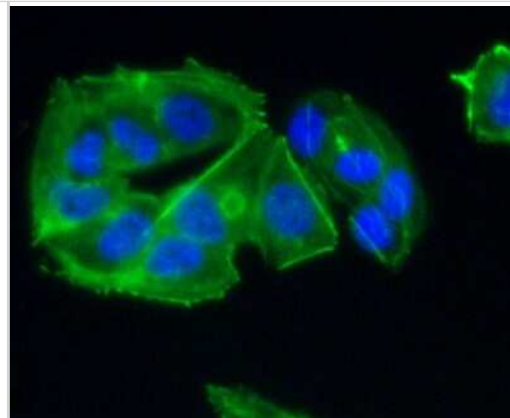
Western Blot: CCR7 Antibody (SR36-04) [NBP2-67324] - Gross and histological appearance of lung excised from 13 weeks of age PyMT transgenic females. CRE treated PyMT transgenic females showed decreased frequency of mammary tumor-derived lung metastases. Level of Ccr7 protein in lung tissues was analyzed by Western blot. Gapdh was used as an internal control. \*  $p < 0.05$  vs. control. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2072-6643/11/2/410>), licensed under a CC-BY license.



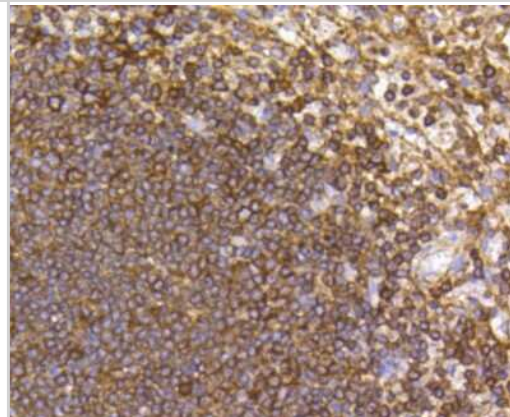
Immunocytochemistry/Immunofluorescence: CCR7 Antibody (SR36-04) [NBP2-67324] - Staining CCR7 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



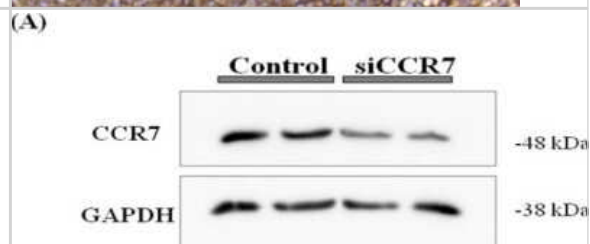
Immunocytochemistry/Immunofluorescence: CCR7 Antibody (SR36-04) [NBP2-67324] - Staining CCR7 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



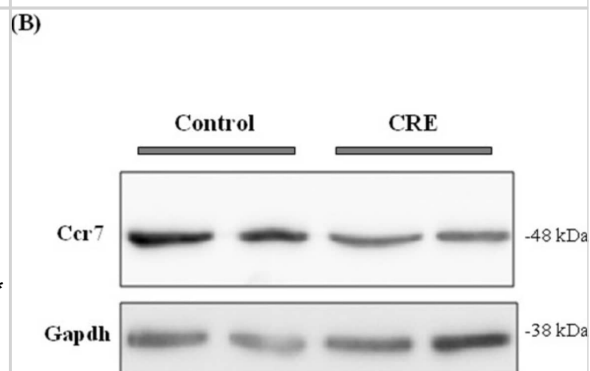
Immunohistochemistry-Paraffin: CCR7 Antibody (SR36-04) [NBP2-67324] - Analysis of paraffin-embedded human spleen tissue using anti-CCR7 antibody. Counter stained with hematoxylin.



Western Blot: CCR7 Antibody (SR36-04) [NBP2-67324] - Downregulation of CCR7 gene by siRNA inhibits gene expression of MMP9, c-FOS, c-JUN and CCL21 in vitro. Western blot of proteins extracted from MCF7 cell against CCR7 and GAPDH. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2072-6643/11/2/410>), licensed under a CC-BY license.



Western Blot: CCR7 Antibody (SR36-04) [NBP2-67324] - Curcuma extract treatment exhibited anti-metastatic effects on primary tumor of MMTV-PyMT transgenic mouse. (A) Quantitative analysis of real-time PCR was done using genes associated with breast cancer metastasis. The expression levels of Ccr7, c-Fos, Mmp9, Ccl21, & Ccl19 were determined by qRT-PCR. The Hprt gene was used as input control, respectively, \*  $p < 0.05$  & \*\*  $p < 0.005$  vs. control. (B) Western blot of proteins extracted from tumor tissues in the PyMT transgenic model against Ccr7 & Gapdh. Histogram data was presented as mean  $\pm$  SEM. \*  $p < 0.05$  vs. control. (C) Western blot of proteins extracted from tumor tissues against Phosphorylated Akt, Phosphorylated Ampk, Her2, ERalpha, Gapdh &  $\beta$ -actin. (D) Quantitative analysis of real time PCR was done by using genes associated with apoptosis. The expression levels of Jun, Akt, & Tnf were determined by qRT-PCR. Data are representative of three independent experiments & are expressed as the mean  $\pm$  SD. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30781353>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Zhang D, Chen Q, Bi Y et al. Bio-inspired poly-DL-serine materials resist the foreign-body response Nature communications 2021-09-07 [PMID: 34493717] (IF/IHC, Mouse)

Kaya P, Lee SR, Lee YH et al. Curcuma Radix Extract Decreases Mammary Tumor-Derived Lung Metastasis via Suppression of C-C Chemokine Receptor Type 7 Expression Nutrients 2019-02-15 [PMID: 30781353] (IF/IHC, Mouse)





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General: novus@novusbio.com

### **Products Related to NBP2-67324**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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