Product Datasheet

CCR2 Antibody (E68) NB110-55674

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.



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NB110-55674

CCR2 Antibody (E68)

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	E68
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	59% PBS, 0.05% BSA and 40% Glycerol
Product Description	
Host	Rabbit
Gene ID	729230
Gene Symbol	CCR2
Species	Human, Mouse, Primate, Monkey
Specificity/Sensitivity	The antibody does not cross-react with other CKR family members.
Immunogen	A synthetic peptide corresponding to the N-terminal residues of the human C-C chemokine receptor type 2 was used as immunogen.
Notes	Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry 1:25, Immunohistochemistry 1:10- 1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 1:100
Application Notes	In Western blot this antibody detects a band at approximately 42-52 kDa. Immunocytochemistry/Immunofluorescence was reported in scientific literature.

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Publications

Liu Y, Gunsten SP, Sultan DH et al. PET-based Imaging of Chemokine Receptor 2 in Experimental and Diseaserelated Lung Inflammation Radiology 2017-06-01 [PMID: 28045644] (IF/IHC, Mouse)

He Shizhi, He Shuangba, Chen Chun-Hao et al. The chemokine (CCL2-CCR2) signaling axis mediates perineural invasion. Molecular Cancer Research : Mcr 2015-01-01 [PMID: 25312961] (IF/IHC, Human)

Kozireva S, Rudevica Z, Baryshev M et al. Upregulation of the Chemokine Receptor CCR2B in Epstein-Barr Virus-Positive Burkitt Lymphoma Cell Lines with the Latency III Program Viruses 2018-05-03 [PMID: 29751565] (WB)

Kholodnyuk I, Rudevica Z, Leonciks A et al. Expression of the chemokine receptors CCR1 and CCR2B is upregulated in peripheral blood B cells upon EBV infection and in established lymphoblastoid cell lines. Virology 2017-09-08 [PMID: 28892735] (Human)

Jagadeesh Janjanam, Gadiparthi N. Rao Novel role of cortactin in G proteincoupled receptor agonist-induced nuclear export and degradation of p21Cip1. Scientific Reports 2016-07-01 [PMID: 27363897] (WB, WB, Human)

Jagadeesh Janjanam, Giri Kumar Chandaka, Sivareddy Kotla et al. PLC3 mediates cortactin interaction with WAVE2 in MCP1-induced actin polymerization and cell migration. The American Society of Cell Biology 2015-10-13 [PMID: 26490115] (IP, WB, Human)

Lee YS, Kim SY, Song SJ et al. Crosstalk between CCL7 and CCR3 promotes metastasis of colon cancer cells via ERK-JNK signaling pathways. Oncotarget. 2016-06-14 [PMID: 27167205] (WB, Human)

Nishiwaki S, Nakayama T, Murata M et al. Dexamethasone Palmitate Ameliorates Macrophages-Rich Graft-versus-Host Disease by Inhibiting Macrophage Functions. PLoS ONE. 2014-05-08 [PMID: 24806147] (FLOW, Mouse)

Hart KM, Bak SP, Alonso A, Berwin B. Phenotypic and functional delineation of murine CX(3)CR1 monocyte-derived cells in ovarian cancer. Neoplasia 2009-06-01 [PMID: 19484145] (FACS, Mouse)

Tugizov S, Herrera R, Veluppillai P et al. Epstein-Barr virus (EBV)-infected monocytes facilitate dissemination of EBV within the oral mucosal epithelium. J Virol 2007-06-01 [PMID: 17376918] (WB)

Fu ES, Zhang YP, Sagen J et al. Transgenic inhibition of glial NF-kappa B reduces pain behavior and inflammation after peripheral nerve injury. Pain 2010-03-01 [PMID: 20097004] (IF/IHC)

Ali S, O'Boyle G, Hepplewhite P et al. Therapy with nonglycosaminoglycan-binding mutant CCL7: a novel strategy to limit allograft inflammation. Am J Transplant 2010-01-01 [PMID: 19951286] (IF/IHC)

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Immunohistochemistry Protocol for CCR2 Antibody (NB110-55674)

Immunohistochemistry Protocol for Paraffin-embedded Tissues

- 1. Solutions and reagents
- 1.1. Xylene
- 1.2. Ethanol, anhydrous denatured, histological grade (100%, 95%, 70%)
- 1.3. Washing buffer:
- TBST washing buffer: 1XTBS/0.1% Tween-20

To prepare stock solution of 10X TBS: add 24.2 g Trizma base and 80 g sodium chloride to 1L of dH2O. Adjust pH to 7.6.

Working solution. 1XTBST/0.1% Tween-20: add 100ml 10XTBS to 900 ml dH2O. Add 1 ml Tween-20 and mix well. 1.4. Distilled water (dH2O)

1.5. Antigen Retrieval Solution:

0.01M Sodium Citrate Buffer, pH 6.0

To prepare stock solutions:

Solution A. 0.1 M citric acid solution: dissolve 21.0 g of citric acid, monohydrate (C6H8O7.H2O) in 1 liter of dH2O. Solution B. 0.1M sodium citrate solution: dissolve 29.4 g trisodium citrate dihydrate (C6H5Na3O7.2H2O) in 1 liter of dH2O.

Working solution: Add 9 ml of Stock solution A and 41 ml of stock solution B to 450 ml of dH2O. Adjust pH to 6.0. 1.6. 3% Hydrogene Peroxide

1.7. Blocking buffer:

PBS (Dulbeccos Phosphate Buffered Salts, 1X, catalog #21-031-CV from Mediatech, Inc.) + 10% serum (serum origin depends on the host of the secondary antibody)

1.8. Hematoxylin QS (catalog #H-3404 from Vector Laboratories, Inc.)

1.9. Permanent Mounting medium (VectaMount, catalog# H-5000 Vector Laboratories, Inc.)

2. Protocol

2.1. Deparaffinization/Rehydration

2.1.1. Heat slides in an oven at 65C for 1 hour.

2.1.2. De-paraffinize/hydrate using the following series of washes: two Xylene washes (5 min each), followed by two 100% ethanol rinses (5 min each), followed by 95% ethanol, 70% ethanol, 50% ethanol, 30% ethanol, followed by H2O and a TBST wash for 5 min on a shaker.

2.2. Antigen Retrieval

2.2.1. Immerse slides into staining dish containing Antigen Retrieval Solution.

2.2.2. Place covered staining dish into the rice cooker. Add 120 ml of dH2O.

2.2.3. When cook is turned to warm (about 20 to 30 min), unplug the cooker and remove the staining dish to the bench top.

2.2.4. Allow to cool down, without cover, for 20 min.

2.3. Staining

- 2.3.1. Wash slides with TBST for 5 min on a shaker.
- 2.3.2. Inactivate endogenous peroxidase by covering tissue with 3% hydrogen peroxide for 10 min.
- 2.3.3. Wash slides three times with TBST (3 min each on a shaker).
- 2.3.4. Block slides with the blocking solution for 1 hour.
- 2.3.5. Dilute primary antibody in the blocking buffer per recommendation on the data sheet.

2.3.6. Apply primary antibody to each section and incubate overnight in the humidified chamber (4C).

2.3.7. Wash slides three times with TBST (3 min each on a shaker).

2.3.8. Apply to each section secondary HRP-conjugated anti-rabbit antibody diluted in the blocking solution per manufacturers recommendation; incubate for 1 hour at room temperature.

2.3.9. Wash slides three times with TBST (3 min each on a shaker).

2.3.10. Add freshly prepared DAB substrate to the sections.

2.3.11. Incubate tissue sections with the substrate at room temperature until suitable staining develops (generally 2 to 5 min).

2.3.12. Rinse sections with water.

2.3.13. Counterstain with Hematoxylin.

2.3.14. Rinse sections with water.

2.3.15. Dehydrate samples using two rinses with 100% Ethanol (20 dips per rinse) followed by two rinses with Xylene (30 dips per rinse).

2.3.16. Mount coverslips on slides using Permount medium.





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