Product Datasheet

CCR7 Antibody (Y59)
NB110-55680

Unit Size: 0.1 ml

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

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Publications: 9

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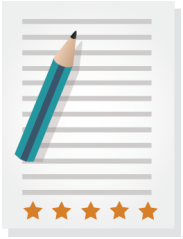

NB110-55680

CCR7 Antibody (Y59)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	Y59
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Tissue culture supernatant
Buffer	49% PBS, 0.05% BSA and 50% Glycerol
Target Molecular Weight	45 kDa

Product Description	
Host	Rabbit
Gene ID	1236
Gene Symbol	CCR7
Species	Human, Mouse, Rat, Monkey
Reactivity Notes	May cross reacts with Rhesus monkey.
Specificity/Sensitivity	The antibody does not cross-react with other G-protein coupled receptor 1 family members.
Immunogen	A synthetic peptide corresponding to residues in N-terminal extracellular domain of human CKR7 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, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Flow Cytometry (Negative)
Recommended Dilutions	Western Blot 1:1000-10000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:250, Immunoprecipitation 1:10, Immunohistochemistry-Paraffin 1:250, Immunohistochemistry-Frozen 1:250, Flow Cytometry (Negative)
Application Notes	This product is useful for: Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry, Immunoprecipitation. Immunohistochemistry-Frozen was reported in scientific literature. In Western blot this antibody detects a band at approximately 45kDa.

Publications

Finetti F, Capitani N, Manganaro N et al. Optimization of Organotypic Cultures of Mouse Spleen for Staining and Functional Assays Front Immunol 2020-03-24 [PMID: 32265925] (FLOW, Mouse)

Patrussi L, Capitani N, Ulivieri C et al. p66Shc deficiency in the Eu-TCL1 mouse model of chronic lymphocytic leukemia enhances leukemogenesis by altering the chemokine receptor landscape Haematologica 2019-02-28 [PMID: 30819907] (WB, Human)

Finsen Alexandra Vanessa, Ueland Thor, Sjaastad Ivar et al. The homeostatic chemokine CCL21 predicts mortality in aortic stenosis patients and modulates left ventricular remodeling. PLoS One 2014-01-01 [PMID: 25398010] (ICC/IF, ICC/IF, Human)

Astrup Elisabeth, Ranheim Trine, Damas Jan K et al. Increased expression of the homeostatic chemokines CCL19 and CCL21 in clinical and experimental Rickettsia conorii infection. BMC Infect Dis. 2014-02-09 [PMID: 24507453] (ICC/IF)

Sugg Kristoffer B, Lubardic Jovan, Gumucio Jonathan P, Mendias Christopher L. Changes in macrophage phenotype and induction of epithelial-to-mesenchymal transition genes following acute Achilles tenotomy and repair. J Orthop Res. 2014-04-04 [PMID: 24700411] (Rat)

Janairo RR, Zhu Y, Chen T, Li S. Mucin Covalently Bonded to Microfibers Improves the Patency of Vascular Grafts. Tissue Eng Part A. 2013-08-21 [PMID: 23962121] (IHC-Fr, ICC/IF, Rat)

Rebhun RB, Cheng H, Gershenwald JE et al. Constitutive expression of the alpha4 integrin correlates with tumorigenicity and lymph node metastasis of the B16 murine melanoma. Neoplasia 2010-02-01 [PMID: 20126475] (WB)

Gottfried-Blackmore A, Kaunzner UW, Idoyaga J et al. Acute in vivo exposure to interferon-? enables resident brain dendritic cells to become effective antigen presenting cells . Proc Natl Acad Sci U S A 106 20918-10923. 2009-01-01 [PMID: 19906988] (WB)

Lee BL, Jeon H, Wang A, Yan Z, Yu J, Grigoropoulos C, Li S. Femtosecond laser ablation enhances cell infiltration into three-dimensional electrospun scaffolds. Acta Biomater. 2012-04-19 [PMID: 22522128] (IHC-Fr, ICC/IF, Rat)

Procedures

Immunohistochemistry Protocol for CCR7 Antibody (NB110-55680)
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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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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