

Product Datasheet

Langerin/CD207 Antibody - BSA Free NB100-56733

Unit Size: 0.1 mg

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

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NB100-56733

Langerin/CD207 Antibody - BSA Free

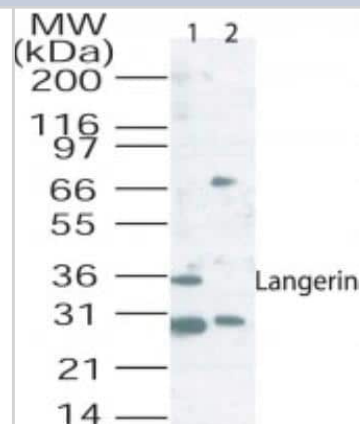
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	50489
Gene Symbol	CD207
Species	Human, Mouse
Immunogen	Amino acids 26-44 of mouse Langerin were used as immunogen (Uniprot # Q8VBX4)

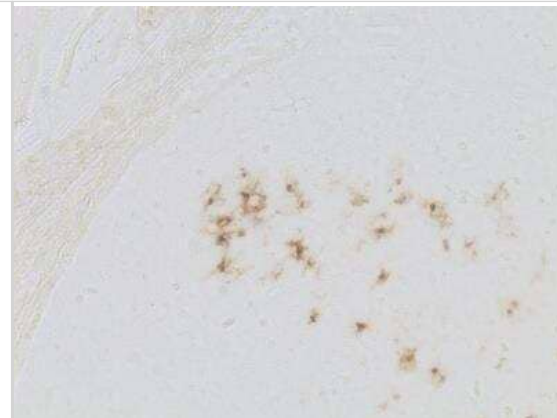
Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1 - 3 ug/ml, Flow Cytometry 1:20-1:2000, Immunohistochemistry 1:200-1:1000, Immunohistochemistry-Paraffin 1:200-1:1000, Immunohistochemistry-Frozen 1:200-1:1000, Flow (Intracellular) reported in scientific literature (PMID 18369922)
Application Notes	A protein band of ~36 kDa is detected in mouse lung tissue lysate. Pre-incubation with the immunizing peptide completely removes langerin reactivity from NB100-56733.

Images

Western Blot: Langerin/CD207 Antibody [NB100-56733] - Analysis of langerin (CD207) in mouse lung tissue lysate using 2 ug/ml of langerin antibody. Lane 1, Without blocking peptide; Lane 2, With blocking peptide.



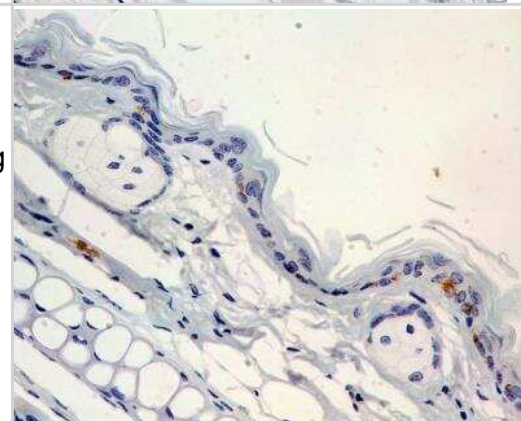
Immunohistochemistry-Paraffin: Langerin/CD207 Antibody [NB100-56733] - Human tonsil tissue. Heat mediated antigen retrieval in citrate buffer, 95C for 30 min. Image from verified customer review.



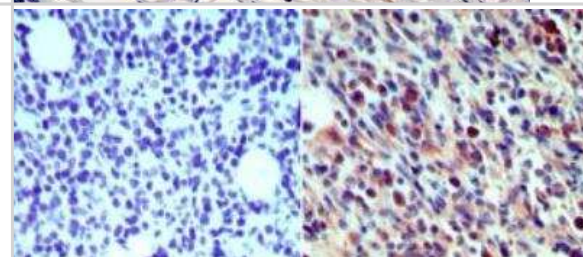
Immunohistochemistry-Paraffin: Langerin/CD207 Antibody [NB100-56733] - Tissue microarray from normal mouse organs (NBP2-30225) using rabbit polyclonal Langerin/CD207 antibody at 5ug/ml concentration. The IHC-P protocol involved antigen retrieval with 10mM sodium citrate buffer pH 6.0 and this antibody generated specific staining of the Langerhans cells in mouse ear lobe sections.



Immunohistochemistry-Paraffin: Langerin/CD207 Antibody [NB100-56733] - Tissue microarray from normal mouse organs (NBP2-30225) using rabbit polyclonal Langerin/CD207 antibody at 5ug/ml concentration. The IHC-P protocol involved antigen retrieval with 10mM sodium citrate buffer pH 6.0 and this antibody generated specific staining of the Langerhans cells in mouse ear lobe sections.



Immunohistochemistry-Paraffin: Langerin/CD207 Antibody [NB100-56733] - Analysis of langerin (CD207) in mouse breast tissue using an isotype control antibody (left) and langerin (CD207) antibody (right) at 5 ug/ml.



Publications

Yasuda T Ura T Taniguchi M, Yoshida H. Intradermal Delivery of Antigens Enhances Specific IgG and Diminishes IgE Production: Potential Use for Vaccination and Allergy Immunotherapy. PLoS ONE. 2016-12-15 [PMID: 27973543] (IF/IHC, Mouse)

Ness KJ, Fan J, Wilke WW et al. Chronic ethanol consumption decreases murine Langerhans cell numbers and delays migration of Langerhans cells as well as dermal dendritic cells. Alcohol Clin Exp Res. 2008-04-01 [PMID: 18241312] (Flow - IC, Mouse)

Details:

Flow (intracellular), mouse lymph node cells, Figs. 4A, 5A.

Legge KL, Schlueter AJ. Dendritic cells in chronic in vivo ethanol exposure models. Methods Mol Biol. 2008-01-01 [PMID: 18369922] (Flow - IC, Mouse)

Details:

Flow (intracellular), mouse dendritic cells, Fig. 4.

Dajee M, Muchamuel T, Schryver B et al. Blockade of experimental atopic dermatitis via topical NF-kappaB decoy oligonucleotide. J Invest Dermatol. 2006-08-01 [PMID: 16628194] (IHC-Fr)

Sung SS, Fu SM, Rose CE Jr et al. A major lung CD103 (alphaE)-beta7 integrin-positive epithelial dendritic cell population expressing Langerin and tight junction proteins. J Immunol. 2006-02-15 [PMID: 16455972] (IF/IHC)



Procedures

Immunohistochemistry (Paraffin) Protocol

Langerin/CD207 Antibody:

DeParaffinization

Materials Required

- Tissue array slide - 100%, 95%, and 75% ethanol
- Xylene

Method

1. Incubate in a dry oven at 62C for 1 hour. Slides should be maintained in a vertical orientation to allow complete removal of the paraffin.
2. Dewax slides in xylene for 5 x 4 minutes.
3. Hydrate slides in 100%, 95%, and 75% ethanol for 2 x 3 minutes each.
4. Immerse slides in tap water for 5 minutes.

Suggested Antigen Retrieval Protocol

The following procedure are a suggestion only. Other protocols can be used on the array slides.

Materials Required

- Tissue array slide - Phosphate buffered saline (pH 7.6)
- Citrate buffer (0.01 M, pH 6.0) - Microwave oven (700 W)

Method 1 (Microwave)

1. Immerse slides into citrate buffer (0.01 M, pH 6.0).
2. Microwave (700 W or high) for 5 min, add citrate buffer if necessary.
3. Microwave (medium) for 5 min, add citrate buffer if necessary.
4. Microwave (low) for 5 min.
5. Immerse in cold PBS.

Method 2 (Autoclave/Pressure Cooker)

1. Immerse slides in citrate buffer.
2. Incubate in a pressure cooker for 2 min at 95C.
3. Cool to room temperature.
4. Wash slides in PBS for 3 x 5 min.

Method 3 (Enzyme treatment)

1. Incubate slides with pronase [0.05% (w/v) in PBS] or trypsin [0.05% (v/v) in PBS] or pepsin [0.05% (v/v) in 2 N HCl] at 37oC (incubation time should be adjusted according to the antibody).
2. Wash slides in PBS for 3 x 5 min.

Method 4 (Hot bath)

1. Heat citrate buffer (1mM EDTA, pH8.0 or 0.01M sodium citrate buffer, pH6.0) to about 95oC.
2. Place slides in the buffer for 10-15 min.

Immunostain

Materials Required

1. Slides
2. Phosphate buffered saline (pH 7.6)
3. Hydrogen peroxide

4. Primary antibody
5. Blocking serum (normal serum)
6. Biotinylated secondary antibody
7. ABC reagent (6, 7, and 8 are included in Vectastain Elite ABC kit)
8. Diaminobenzidine
9. Meyer's hematoxylin
10. Permount

Method

1. Incubate in a dry oven at 62C for 1 hour. Slides should be maintained in a vertical orientation to allow complete removal of the paraffin.
2. Dewax slides in xylene for 5 x 4 minutes.
3. Hydrate slides in 100%, 95%, and 75% ethanol for 2 x 3 minutes each.
4. Immerse slides in tap water for 5 minutes
5. Antigen retrieval method (optional).
6. Quenching of endogenous peroxidase (optional)
 - a. immerse slides in 3% hydrogen peroxide solution for 6 minutes.
 - b. wash slides in PBS for 3 x 5 minutes.
7. Incubate slides with blocking serum (1:50) for 30 min.*
8. Blot excess serum from section, and incubate with primary Ab. Suggested incubation time may vary between antibodies:

mAb 2 hours at room temperature or overnight at 4C.

pAb: 1 ~ 1.5 hours at room temperature.
9. Wash slides in PBS for 3 x 5 minutes.
10. Incubate slides with biotin-conjugated secondary Ab for 30 min.*
11. Wash slides in PBS for 3 x 5 minutes.
12. Incubate slides with Avidin-Biotin Complexes for 30 min.*
13. Wash slides in PBS for 3 x 5 minutes.
14. Incubate slides in fresh DAB solution for 2 minutes. (We use DAB solution in Vector DAB/Ni substrate kit).**
15. Stop the reaction by washing in tap water.
16. Counterstain in Meyer's hematoxylin for 10 seconds.
17. Dehydrate slides in 75%, 80%, 95% and 100% ethanol
18. Clear slides in xylene 4 X 5 minutes.
19. Mount cover slide with Permount.

* Blocking serum, secondary antibody and avidin-biotin-peroxidase complexes are included in most of the immunostaining kit. Our lab uses the ABC kit from Vector Lab (Vectastain Elite ABC kit).

** We use DAB solution in Vector/DAB/Ni substrate kit (Vector Labs., Cat. SK-4100).



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Products Related to NB100-56733

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-52050-0.1mg	Recombinant Human Langerin/CD207 His Protein

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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