

Product Datasheet

Langerin/CD207 Antibody (929F3.01) - Azide and BSA Free DDX0362P-100

Unit Size: 0.1 mg

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

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DDX0362P-100

Langerin/CD207 Antibody (929F3.01) - Azide and BSA Free

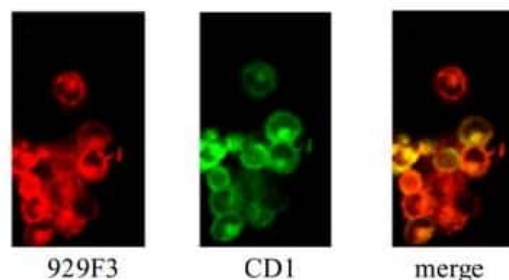
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	929F3.01
Preservative	No Preservative
Isotype	IgG2a
Purity	Ion exchange chromatography
Buffer	Tris-NaCl (pH 8.0)

Product Description	
Description	Novus Biologicals Rat Langerin/CD207 Antibody (929F3.01) - Azide and BSA Free (DDX0362P-100) is a monoclonal antibody validated for use in IHC, ELISA, Flow and ICC/IF. Anti-Langerin/CD207 Antibody: Cited in 73 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Gene ID	50489
Gene Symbol	CD207
Species	Human, Mouse, Rat, Porcine, Equine
Immunogen	Langerin/CD207 was used as immunogen.
Notes	This product is manufactured by Eurobio Scientific (formerly Dendritics) and distributed by Novus Biologicals.

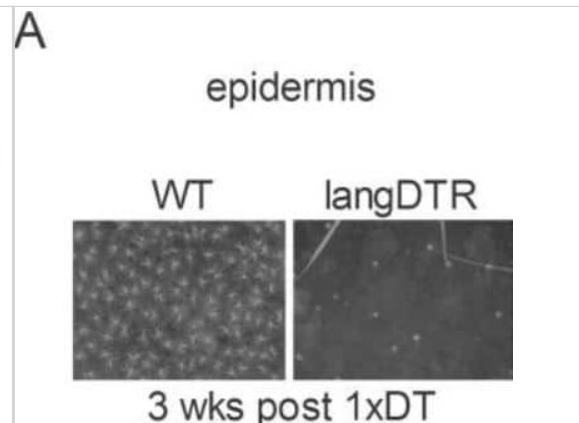
Product Application Details	
Applications	Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Flow Cytometry 1:10-1:1000, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	Permeabilization is recommended for flow cytometry.

Images

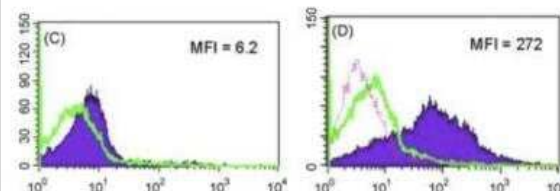
Immunocytochemistry/Immunofluorescence: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - Langerin Antibody (929F3.01) [DDX0362P-100] - IF staining on isolated skin-isolated porcine Langerhans cells .



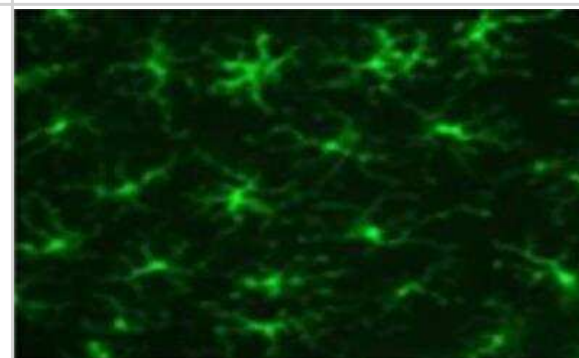
Immunohistochemistry: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - Epidermal LC are dispensable for betaGal-specific immunity but down-regulate OVA-specific T cell functions. LangDTR or B6 WT mice were injected once with 1ug DT. Epidermal sheets were stained for langerin expression 3 wks later. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0128722>), licensed under a CC-BY license.



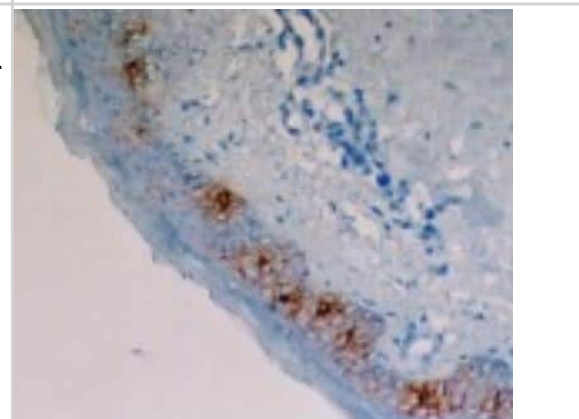
Flow Cytometry: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - Cells derived from culture of porcine skin stained permeabilized (D) or not (C) with 929F3



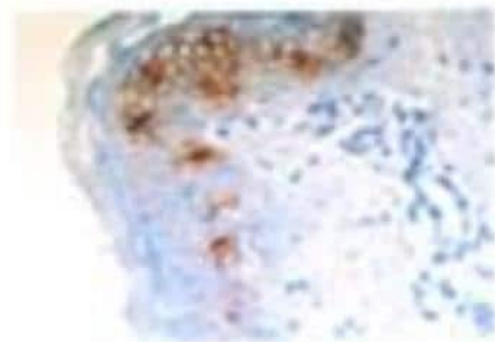
Immunocytochemistry/Immunofluorescence: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - Mouse epidermal sheet.



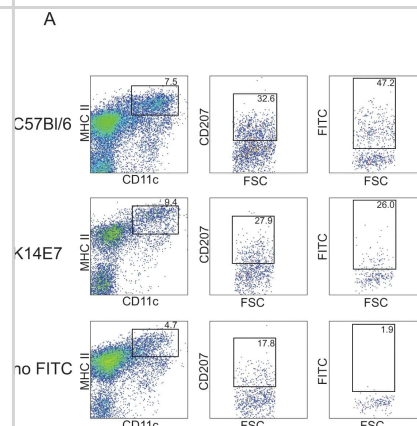
Immunohistochemistry-Frozen: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - Analysis using the HRP conjugate of DDX0362P-100. Staining of human skin frozen section.



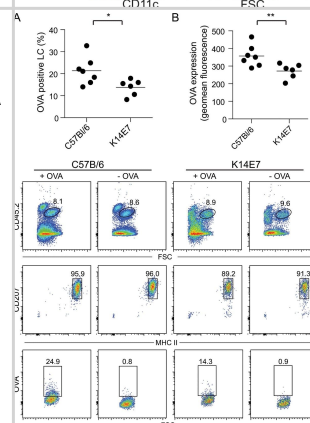
Immunohistochemistry-Frozen: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - IHC staining of human skin cryosections with 929F3-HRP



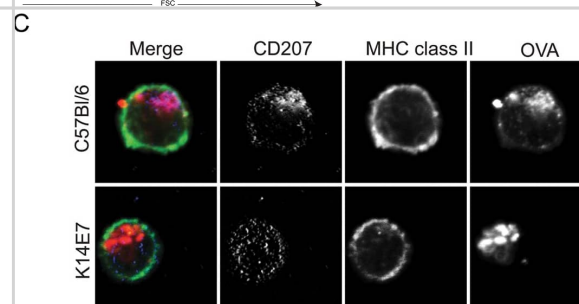
Flow Cytometry: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - LC migration from the epidermis is reduced in K14E7 mice. C57BL/6 & K14E7 mice were painted with FITC on a 15mm² area of abdomen & inguinal lymph nodes harvested 48 h later. Single cell suspensions were stained with CD11c, MHC class II & CD207 (A). The absolute number of FITC positive cells was determined (B). The total migrated LC in the lymph nodes as a percentage of the mean total number of LC in the painted skin is shown (C). *P < 0.05 (Mann-Whitney U test). Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0127155>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Flow Cytometry: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - Antigen uptake is reduced in K14E7 mice. Epidermal cell suspensions from C57BL/6 & K14E7 mice were cultured with Alexa-555-labelled OVA overnight at 37°C, stained & analysed by flow cytometry (A). The Alexa-555-OVA⁺ LC (CD45.2⁺, MHC Class II⁺, CD207⁺) as a percentage of total LC (B) & the level of expression of Alexa-555-OVA on the positive stained LC is shown (C). **P < 0.01; *P < 0.05 (Mann-Whitney U test). Confocal imaging of CD207⁺, MHCII⁺ LC that have taken up Alexa-555-OVA (D). Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0127155>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

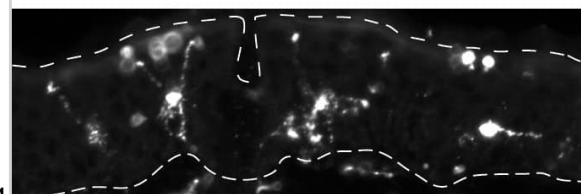


Immunocytochemistry/ Immunofluorescence: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - Antigen uptake is reduced in K14E7 mice. Epidermal cell suspensions from C57BL/6 & K14E7 mice were cultured with Alexa-555-labelled OVA overnight at 37°C, stained & analysed by flow cytometry (A). The Alexa-555-OVA⁺ LC (CD45.2⁺, MHC Class II⁺, CD207⁺) as a percentage of total LC (B) & the level of expression of Alexa-555-OVA on the positive stained LC is shown (C). **P < 0.01; *P < 0.05 (Mann-Whitney U test). Confocal imaging of CD207⁺, MHCII⁺ LC that have taken up Alexa-555-OVA (D). Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0127155>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



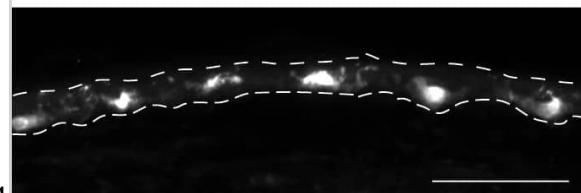
Immunohistochemistry: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - The absolute number of LC is increased in K14E7 mouse epidermis. Sections of C57Bl/6 (A) & K14E7 (B) mouse ear were stained with CD207 & imaged by epifluorescence microscopy. The epidermis (top) is indicated by a broad dashed line, & the epidermis/dermis interface by a narrow dashed line; scale bar = 50µm. LC (CD45.2, CD11c, CD207, MHCII+) harvested from a 5.5 mm diameter sample of dorsal ear epidermis were enumerated, with counting beads, by flow cytometry. The absolute number (C) & the percentage of LC (D) are shown. Confocal imaging was carried out on CD207-stained sheets of dorsal ear skin (E). Scale bar represents 20µm. Dendrites on the CD207+ LC were enumerated following confocal imaging (F). **P < 0.01 (Mann-Whitney U test). Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0127155>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

B



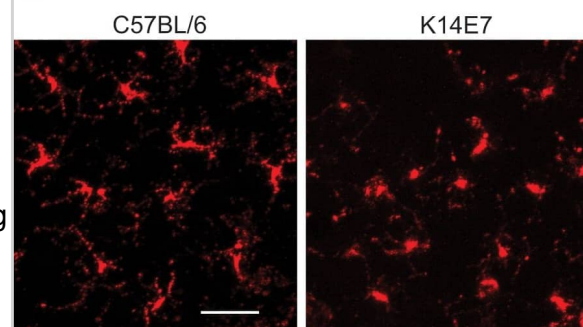
Immunocytochemistry/ Immunofluorescence: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - The absolute number of LC is increased in K14E7 mouse epidermis. Sections of C57Bl/6 (A) & K14E7 (B) mouse ear were stained with CD207 & imaged by epifluorescence microscopy. The epidermis (top) is indicated by a broad dashed line, & the epidermis/dermis interface by a narrow dashed line; scale bar = 50µm. LC (CD45.2, CD11c, CD207, MHCII+) harvested from a 5.5 mm diameter sample of dorsal ear epidermis were enumerated, with counting beads, by flow cytometry. The absolute number (C) & the percentage of LC (D) are shown. Confocal imaging was carried out on CD207-stained sheets of dorsal ear skin (E). Scale bar represents 20µm. Dendrites on the CD207+ LC were enumerated following confocal imaging (F). **P < 0.01 (Mann-Whitney U test). Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0127155>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

A



Immunocytochemistry/ Immunofluorescence: Langerin/CD207 Antibody (929F3.01) [DDX0362P-100] - The absolute number of LC is increased in K14E7 mouse epidermis. Sections of C57Bl/6 (A) & K14E7 (B) mouse ear were stained with CD207 & imaged by epifluorescence microscopy. The epidermis (top) is indicated by a broad dashed line, & the epidermis/dermis interface by a narrow dashed line; scale bar = 50µm. LC (CD45.2, CD11c, CD207, MHCII+) harvested from a 5.5 mm diameter sample of dorsal ear epidermis were enumerated, with counting beads, by flow cytometry. The absolute number (C) & the percentage of LC (D) are shown. Confocal imaging was carried out on CD207-stained sheets of dorsal ear skin (E). Scale bar represents 20µm. Dendrites on the CD207+ LC were enumerated following confocal imaging (F). **P < 0.01 (Mann-Whitney U test). Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0127155>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

E



Publications

Hasegawa T, Oka T, Son HG et al. Cytotoxic CD4⁺ T cells eliminate senescent cells by targeting cytomegalovirus antigen Cell 2023-03-30 [PMID: 37001502]

Guilliams M, Bonnardel J, Haest B Et al. Spatial proteogenomics reveals distinct and evolutionarily conserved hepatic macrophage niches Cell 2022-01-12 [PMID: 35021063]

Details:

Citation using the Alexa Fluor 647 version of this antibody.

Nakagawa Y, Egawa G, Miyake T et al. A phenotypic analysis of involucrin-mOVA mice following adoptive transfer of OVA-specific CD8⁺ T cells J Clin Invest 2005-06-14 [PMID: 15951839]

Radtke AJ, Chu CJ, Yaniv Z Et al. IBEX: an iterative immunolabeling and chemical bleaching method for high-content imaging of diverse tissues Nat Protoc 2022-01-13 [PMID: 35022622] (Hydrolysis Assay, Human)

Details:

Citation using the Alexa Fluor 532 version of this antibody.

Radtke Aj, Chu Cj, Yaniv Z Et Al. IBEX: An open and extensible method for high content multiplex imaging of diverse tissues arXiv preprint 2021-01-01

Hasegawa T, Feng Z, Yan Z et al. Reduction in human epidermal Langerhans cells with age is associated with decline in CXCL14-mediated recruitment of CD14⁺ monocytes J. Invest. Dermatol. 2019-12-24 [PMID: 31881212]

Nelson DS, Marano RL, Joo Y et al. BRAF V600E and Pten deletion in mice produces a histiocytic disorder with features of Langerhans cell histiocytosis PLoS One. 2019-09-17 [PMID: 31527903] (ICC/IF, FLOW, Mouse)

Details:

Citation used the Alexa Fluor 647 format of this antibody.

Bonnardel J, T'Jonck W, Gaublonne D et al.. Stellate Cells, Hepatocytes, and Endothelial Cells Imprint the Kupffer Cell Identity on Monocytes Colonizing the Liver Macrophage Niche Immunity. 2019-10-15 [PMID: 31561945] (FLOW, Mouse)

Details:

Citation used the Alexa Fluor 647 format of this antibody.

Schulz A, Jiang L, de Vor L et al. Neutrophil Recruitment to Noninvasive MRSA at the Stratum Corneum of Human Skin Mediates Transient Colonization Cell Rep 2019-10-29 [PMID: 31665625] (IHC-Fr, Human)

Yang Y, Zenke Y, Hirai T, Kaplan, DH Keratinocyte-derived TGF beta is not required to maintain skin immune homeostasis J. Dermatol. Sci. 2019-05-07 [PMID: 31118160] (FLOW, Mouse)

Artym J, Kocieba M, Zaczynska E et al. Topically applied azaphenothiazines inhibit experimental psoriasis in mice. Int. Immunopharmacol. 2018-04-16 [PMID: 29674255] (Mouse)

Capucha T, Koren N, Nassar M et al. Sequential BMP7/TGF- β 1 signaling and microbiota instruct mucosal Langerhans cell differentiation J. Exp. Med. 2018-01-17 [PMID: 29343501] (Mouse)

More publications at <http://www.novusbio.com/DDX0362P-100>





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to DDX0362P-100

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
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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