

# Product Datasheet

## IL-17/IL-17A Antibody (TC11-18H10) - Azide and BSA Free NBP1-72027

Unit Size: 0.1 mg

Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.

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**NBP1-72027**

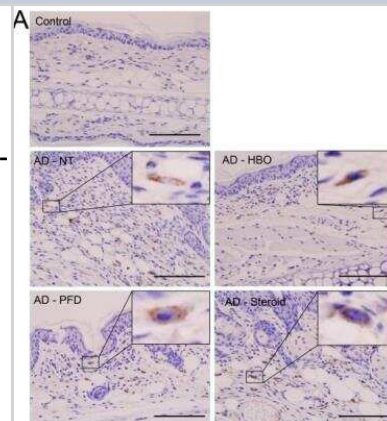
IL-17/IL-17A Antibody (TC11-18H10) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	TC11-18H10
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	BBS
<b>Product Description</b>	
<b>Host</b>	Rat
<b>Gene ID</b>	3605
<b>Gene Symbol</b>	IL17A
<b>Species</b>	Mouse
<b>Specificity/Sensitivity</b>	Recognizes mouse Interleukin 17, a 32kDa disulfide-linked homodimer consisting of two 136 amino acid chains, which belong to the IL-17 family (classified as IL-17A to IL-17F), and signal through the IL-17 receptor (IL-17R/CDw217).
<b>Immunogen</b>	E. coli-expressed, recombinant mouse IL-17/IL-17A
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:100-1:2000, Flow Cytometry 1:10-1:1000, ELISA 1:100 - 1:2000, Immunohistochemistry 10 ug/ml, Immunohistochemistry-Paraffin 10 ug/ml
<b>Application Notes</b>	Use in IHC reported in scientific literature (PMID 27069818).

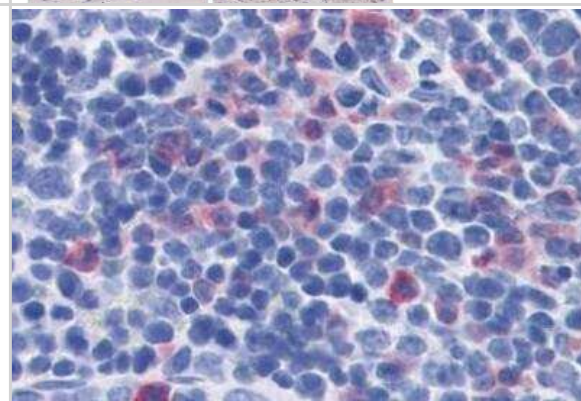


## Images

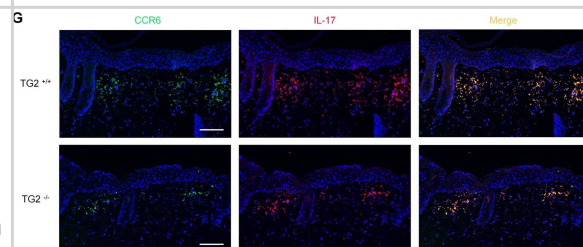
Immunohistochemistry-Paraffin: IL-17/IL-17A Antibody (TC11-18H10) - Azide and BSA Free [NBP1-72027] - IL-17/IL-17A Antibody (TC11-18H10) [NBP1-72027] - Treatment with HBOT or PFD decreased IL-17A expression in the AD lesions. IHC for IL-17A on mouse skin. Scale bar is 100  $\mu$ m. The number of IL-17A-expressing cells was counted in five high-power fields (HPF) chosen at random in each slide by three different pathologists. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0109297>) licensed under a CC-BY license.



Immunohistochemistry-Paraffin: IL-17/IL-17A Antibody (TC11-18H10) [NBP1-72027] - Analysis of anti-IL-17 antibody of mouse spleen at concentration 10  $\mu$ g/ml.



Immunocytochemistry/ Immunofluorescence: IL-17/IL-17A Antibody (TC11-18H10) - Azide and BSA Free [NBP1-72027] - TG2-dependent chemokine production in keratinocytes is critical for IL-17-producing CCR6+  $\gamma$  $\delta$ T-cell & neutrophil dermal infiltration. a, b Effect of DMSO- or IMQ-treated WT- or TG2<sup>-/-</sup>-CM on CCR6+  $\gamma$  $\delta$ T-cell (a) & CD11b+ Ly-6G+ cell (b) migration according to Transwell migration assays. Flow cytometric analysis of the percentage of cells migrating toward the CM in the presence or absence of anti-CXCL1 (a) & anti-CCL20 (b) antibodies (n = 3/group). c, d WT & TG2<sup>-/-</sup> mouse-derived CCR6+  $\gamma$  $\delta$ T-cell (c) & CD11b+ Ly-6G+ cell (d) migration in response to recombinant mouse CCL20 & CXCL1, respectively. Data represent the mean  $\pm$  SEM (n = 3/group). \*p < 0.05; \*\*p < 0.01. e, f Cells were isolated from the back skin of WT & TG2<sup>-/-</sup> mice treated with IMQ for four consecutive days & analyzed by flow cytometry. Representative flow cytometric profiles of CCR6+  $\gamma$  $\delta$ TCR<sup>low</sup> cells (e) & CD11b<sup>high</sup> Ly-6G+ cells (f). The percentage of cells is shown. Data represent the mean  $\pm$  SEM (n = 9/group). g Skin sections were immunostained with CCR6 (green)- & IL-17 (red)-specific antibodies. Nuclei were stained with DAPI (blue). Scale bar, 100  $\mu$ m. h-j Back skin was separated into epidermis & dermis & analyzed by RT-PCR for IL-17-producing  $\gamma$  $\delta$ T-cell markers (h) (Ccr6 & Il23r), IL17 & related cytokines (i) (Il17a, Il17f, & Il22), & myeloid cell-derived cytokines (j) (Il12a & Il23a). Data represent the mean  $\pm$  SEM (n = 11/group). \*p < 0.05; \*\*p < 0.01 vs. WT mice. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32355189>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

JW Shin, MA Kwon, J Hwang, SJ Lee, JH Lee, HJ Kim, KB Lee, SJ Lee, EM Jeong, JH Chung, IG Kim Keratinocyte transglutaminase 2 promotes CCR6+  $\gamma\delta$ T-cell recruitment by upregulating CCL20 in psoriatic inflammation Cell Death Dis, 2020-04-30;11(4):301. 2020-04-30 [PMID: 32355189]

Sozmen SC, Karaman M, Micili SC et al. Resveratrol ameliorates 2, 4-dinitrofluorobenzene-induced atopic dermatitis-like lesions through effects on the epithelium. PeerJ. 2016 Mar 31 [PMID: 27069818] (IHC, Mouse)

Kim HR, Kim JH, Choi EJ et al. Hyperoxygenation Attenuated a Murine Model of Atopic Dermatitis through Raising Skin Level of ROS. PLoS ONE. 2014-10-03 [PMID: 25275529] (IHC-P, Mouse)

### Details:

IL-17/IL-17A antibody used for IHC-P on the AD lesions from hyperbaric oxygen therapy (HBOT) or applying an oxygen-carrying chemical, perfluorodecalin (PFD) treated murine model of AD that was developed by repeated application of a chemical irritant (1% 2,4-dinitrochlorobenzene) and house dust mite (*Dermatophagoide farinae*) extract on one ear of BALB/c mice. Figure 6 shows a decreased IL-17A expression in the AD lesions of HBOT or PFD treated mice.





### **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 NBP1-72027**

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HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
DDXCR01	Rat IgG1 Isotype Control
NBP1-72027AF405	IL-17/IL-17A Antibody (TC11-18H10) [Alexa Fluor® 405]

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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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