

# Product Datasheet

## IL-33 Antibody - BSA Free NBP1-76394

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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**NBP1-76394**

IL-33 Antibody - BSA Free

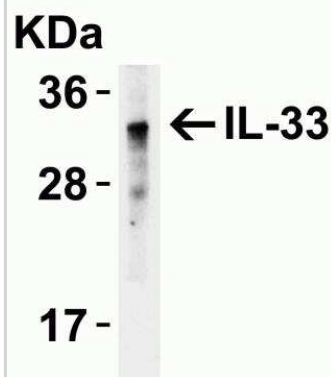
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	33 kDa

Product Description	
Host	Rabbit
Gene ID	90865
Gene Symbol	IL33
Species	Human, Mouse, Rat
Specificity/Sensitivity	Human IL-33 has 4 isoforms, including isoform 1 (270aa, 30.8kD), isoform 2 (228aa, 25.9kD), isoform 3 (228aa, 26.1kD) and isoform 4 (144aa, 16.3kD). This antibody detects only human isoform L. Mouse IL-33 has 1 isoform (266aa, 30kD). Rat IL-33 has only one isoform identified so far (264aa, 29.5kD).
Immunogen	Antibody was raised against a 17 amino acid synthetic peptide from near the center of human IL-33. The immunogen is located within amino acids 150 - 200 of IL-33. Amino Acid Squence: YESQHPSNESGDGVDGK

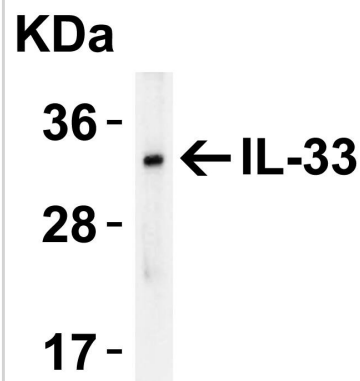
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 2.5 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 2.5 ug/ml
Application Notes	Use in ICC/IF reported in scientific literature (PMID: 29329586).

**Images**

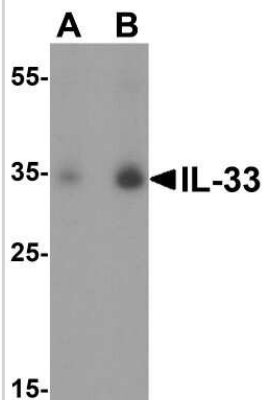
Western Blot: IL-33 Antibody [NBP1-76394] - Loading: 15ug of human lung lysate. Antibodies: IL-33, 2 g/mL , 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



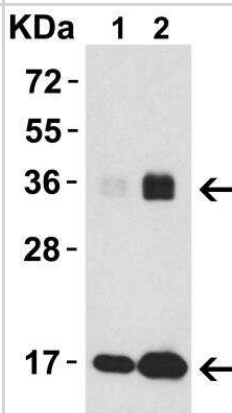
Western Blot: IL-33 Antibody - BSA Free [NBP1-76394] - Validation of IL-33 in Human Lymph Node. Loading: 15. ug of human lymph node lysate Antibodies: IL-33, 2 ug/mL , 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



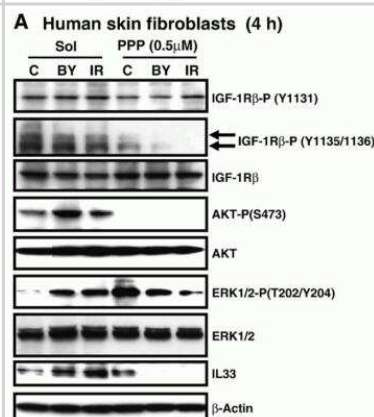
Western Blot: IL-33 Antibody [NBP1-76394] - Analysis of IL-33 in A-20 cell lysate with IL-33 antibody at (A) 1 and (B) 2 ug/mL.



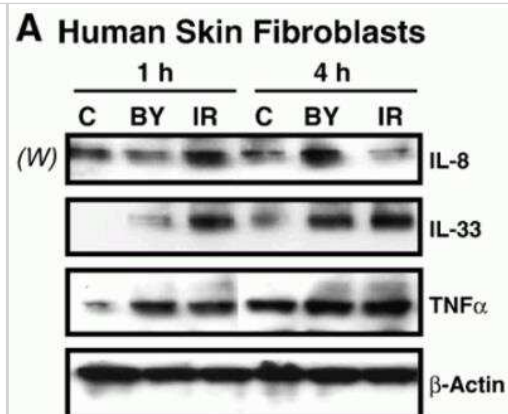
Western Blot: IL-33 Antibody [NBP1-76394] - Loading: 5ng (1) and 25ng (2) of IL-33 partial human recombinant protein. Antibodies: IL-33, NBP1-76394, 1 ug/mL , 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. IL-33 partial human recombinant protein: 112-270aa, 17.9kD, 36kD band is the dimer.



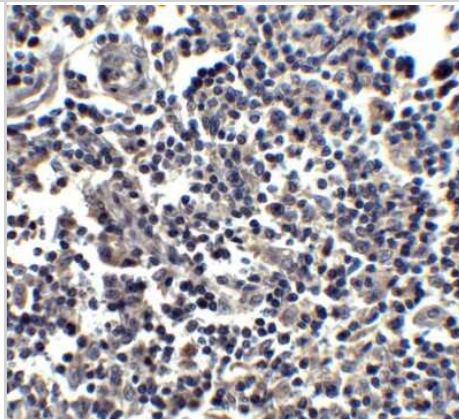
Western Blot: IL-33 Antibody [NBP1-76394] - Regulated Expression Validation of IL-33 in Human Skin Fibroblasts expression of IL-33 in human skin fibroblasts following alpha-irradiation were detected by anti-IL-33 antibodies. IL-33 levels were increased after Alpha-irradiation, which were inhibited by treatment of PPP.



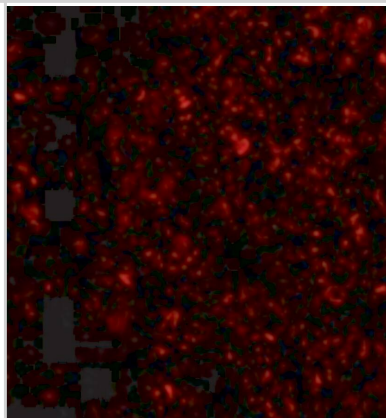
Western Blot: IL-33 Antibody [NBP1-76394] - Human IL-33 has 4 isoforms, including isoform 1 (270aa, 30.8kD), isoform 2 (228aa, 25.9kD), isoform 3 (228aa, 26.1kD) and isoform 4 (144aa, 16.3kD). This antibody detects only human isoform L. Mouse IL-33 has 1 isoform (266aa, 30kD). Rat IL-33 has only one isoform identified so far (264aa, 29.5kD).



Immunohistochemistry-Paraffin: IL-33 Antibody [NBP1-76394] - Analysis of IL-33 in human lymph node tissue with IL-33 antibody at 2.5 ug/ml.



Immunocytochemistry/ Immunofluorescence: IL-33 Antibody - BSA Free [NBP1-76394] - Validation of IL-33 in Human Lymph Node. Immunofluorescent analysis of 4% paraformaldehyde-fixed human lymph node tissue labeling IL-33 with at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).



## Publications

Huang Si-Jian, Yan Jian-Qin, Luo Hui et al. IL-33/ST2 signaling contributes to radicular pain by modulating MAPK and NF-κB activation and inflammatory mediator expression in the spinal cord in rat models of noncompressive lumbar disk herniation. J Neuroinflammation 2018-01-01 [PMID: 29329586] (ICC/IF, Rat)



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### **Products Related to NBP1-76394**

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NBP1-76394PEP	IL-33 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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