

# Product Datasheet

## IL-4 Antibody (BVD4-1D11) - BSA Free NB100-64798

Unit Size: 0.25 mg

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

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### Publications: 2

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**NB100-64798**

IL-4 Antibody (BVD4-1D11) - BSA Free

Product Information	
Unit Size	0.25 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	BVD4-1D11
Preservative	0.09% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS

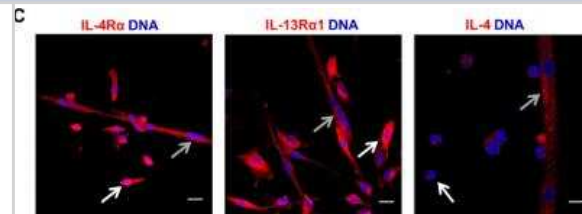
Product Description	
Description	Novus Biologicals Rat IL-4 Antibody (BVD4-1D11) - BSA Free (NB100-64798) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-IL-4 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Gene ID	3565
Gene Symbol	IL4
Species	Mouse
Specificity/Sensitivity	This is specific for mouse Interleukin-4 (IL-4). Interleukin-4 is a potent lymphoid growth factor, which stimulates the growth and survival of certain B and T cells. Clone BVD4-1D11 is reported to neutralise the effects of mouse IL-4 (3).
Immunogen	Recombinant Mouse IL-4

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1 ug/ml-5 ug/ml, Flow Cytometry 1:10-1:50, ELISA 1 ug/ml-5 ug/ml, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500

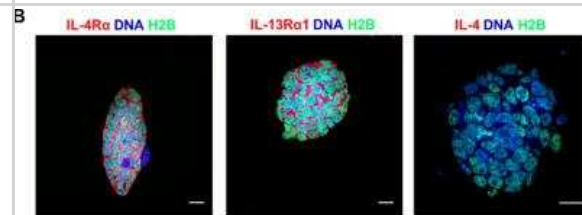


## Images

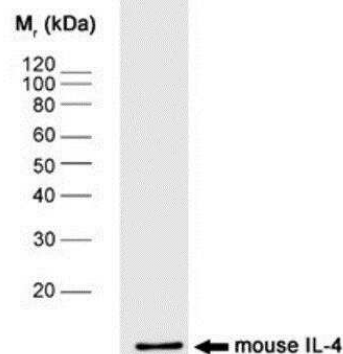
Immunocytochemistry/Immunofluorescence: IL-4 Antibody (BVD4-1D11) [NB100-64798] - Analysis of expression of IL-4 and IL-4 type II receptor subunits in undifferentiated mouse ESCs and mouse primary myoblasts. Representative images of immunocytochemistry analysis of IL-4Ralpha, IL-13Ralpha1, and IL-4 in mouse primary myoblasts at day 6 (white arrows indicate myoblasts, grey arrows indicate myotubes). Scale bar: 20 um. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/1422-0067/20/16/3932>), licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: IL-4 Antibody (BVD4-1D11) [NB100-64798] - Analysis of expression of IL-4 and IL-4 type II receptor subunits in undifferentiated mouse ESCs and mouse primary myoblasts. Representative images of immunocytochemistry analysis of IL-4Ralpha, IL-13Ralpha1, and IL-4 in undifferentiated ESCs. Scale bar: 20 um. Scale bar: 20 um. Image collected and cropped by CiteAb from the following publication ([mdpi.com/1422-0067/20/16/3932](https://www.mdpi.com/1422-0067/20/16/3932)), licensed under a CC-BY license.



Western Blot: IL-4 Antibody (BVD4-1D11) [NB100-64798] - Analysis of mouse IL-4 recombinant protein probed with RAT ANTI MOUSE INTERLEUKIN-4 followed by F(ab')<sub>2</sub> RABBIT ANTI RAT IgG:HRP.



## Publications

Yamakawa D, Tsuboi J, Kasahara K et al. Cilia-Mediated Insulin/Akt and ST2/JNK Signaling Pathways Regulate the Recovery of Muscle Injury *Advanced science* (Weinheim, Baden-Wuerttemberg, Germany) 2022-11-14 [PMID: 36373718] (IHC-Fr, Mouse)

Details:

Dilution used in WB 1:1000

Swierczek-Lasek B, Neska J et al. Interleukin 4 Moderately Affects Competence of Pluripotent Stem Cells for Myogenic Conversion. *Int J Mol Sci* 2019-08-13 [PMID: 31412558] (ICC/IF, Mouse)



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### **Products Related to NB100-64798**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
DDXCR03	Rat IgG2b 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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