Product Datasheet

IFI16 Antibody - BSA Free
NBP1-83118

Unit Size: 0.1 ml

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

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Publications: 3

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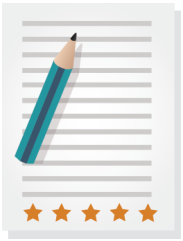
www.novusbio.com/NBP1-83118

Updated 2/21/2025 v.20.1



NBP1-83118

IFI16 Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
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	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

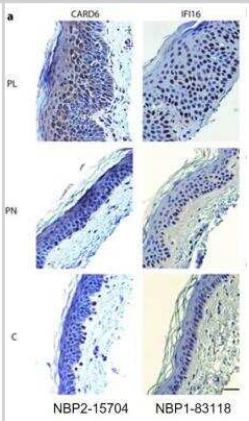
Host	Rabbit
Gene ID	3428
Gene Symbol	IFI16
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: KEKFTPKKIIAIANYVCRNGFLEVYPFTLVADVNADRNMEIPKGLIRSASVTPKIN QLCSQTKGSFVNGVFEVHKKNVRGEFTYYEIQDNTGKMEVVVHGRLTTINCEE GDKLKLTCFELAPKSGNTGELRSVIHSHIKVIK

Product Application Details

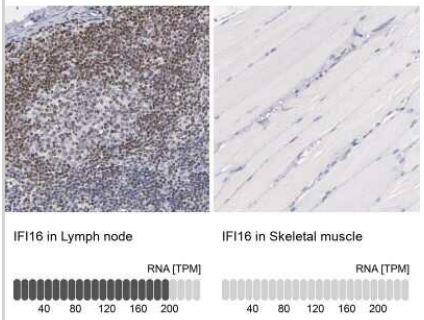
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

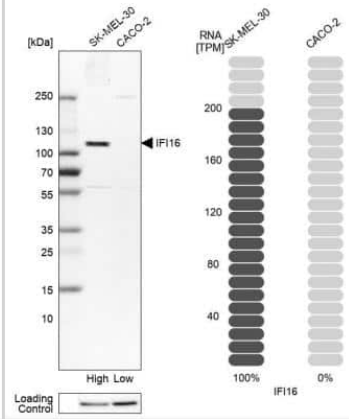
Immunohistochemistry: IFI16 Antibody [NBP1-83118] - Induced expression of NOD2, CARD6, PYCARD, and IFI16 in psoriasis lesions. Immunohistochemistry shows stronger NOD2, CARD6, PYCARD, and IFI16 staining in PL (upper) than in controls (lower). PN (middle) and C are almost negative for NOD2 and CARD6. IFI16 is predominantly in nuclei of PL and PN. In controls IFI16 expression is weak and cytoplasmic. PYCARD is strongly induced in cytoplasm but also some nuclei are positive in PL and PN. Controls exhibit only a few PYCARD positive nuclei. Scale bar 50 um. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/srep22745) licensed under a CC-BY license.



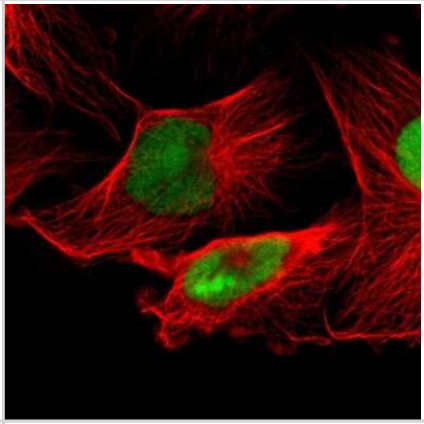
Immunohistochemistry-Paraffin: IFI16 Antibody [NBP1-83118] - Staining in human lymph node and skeletal muscle tissues using NBP1-83118 antibody. Corresponding IFI16 RNA-seq data are presented for the same tissues.



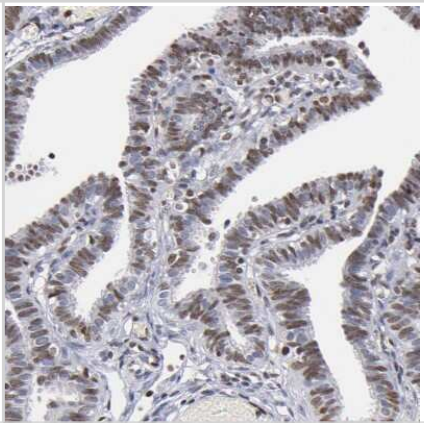
Western Blot: IFI16 Antibody [NBP1-83118] - Analysis in human cell lines SK-MEL-30 and Caco-2 using Anti-IFI16 antibody. Corresponding IFI16 RNA-seq data are presented for the same cell lines. Loading control: Anti-HSP90B1.

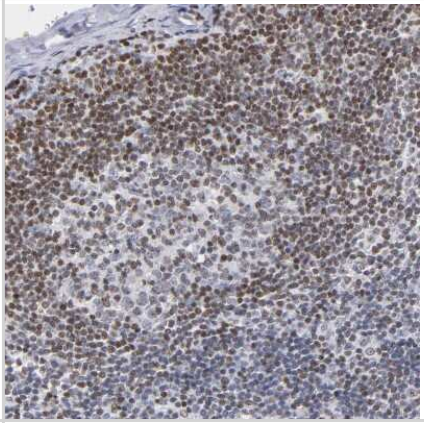
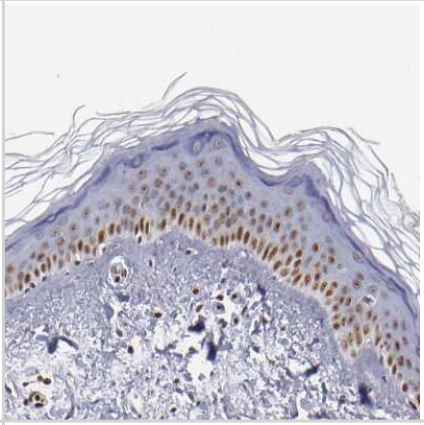
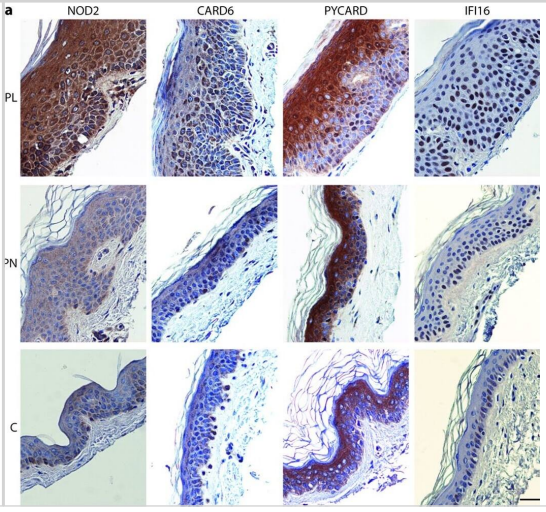


Immunocytochemistry/Immunofluorescence: IFI16 Antibody [NBP1-83118] - Staining of human cell line U-251 MG shows localization to nucleus & nucleoli. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: IFI16 Antibody [NBP1-83118] - Staining of human Fallopian tube shows moderate nuclear positivity in glandular cells.



Immunohistochemistry-Paraffin: IFI16 Antibody [NBP1-83118] - Staining of human lymph node shows strong nuclear positivity in non-germinal center cells.	
Immunohistochemistry-Paraffin: IFI16 Antibody [NBP1-83118] - Staining of human skeletal muscle shows no positivity in myocytes as expected.	
Immunohistochemistry-Paraffin: IFI16 Antibody [NBP1-83118] - Staining of human skin shows moderate nuclear positivity in squamous epithelial cells.	
Immunohistochemistry-Paraffin: IFI16 Antibody [NBP1-83118] - Induced expression of NOD2, CARD6, PYCARD, & IFI16 in psoriasis lesions.(a) Immunohistochemistry shows stronger NOD2, CARD6, PYCARD, & IFI16 staining in PL (upper) than in controls (lower). PN (middle) & C are almost negative for NOD2 & CARD6. IFI16 is predominantly in nuclei of PL & PN. In controls IFI16 expression is weak & cytoplasmic. PYCARD is strongly induced in cytoplasm but also some nuclei are positive in PL & PN. Controls exhibit only a few PYCARD positive nuclei. Scale bar 50 µm. (b) IEM of PL shows PYCARD clusters in cytoplasm. (c) Immunofluorescence of keratinocytes colocalizes CARD6 with a mitochondrial MTCO2. (d) IEM of psoriatioc lesional samples also localized CARD6 in the mitochondria (arrow head). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/26976200), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

D Meisterman, A Bruneau, S Loubersac, A Reignier, J Firmin, V François-C, S Kilens, Y Lelièvre, J Lammers, M Feyeux, P Hulin, S Nedellec, B Bretin, G Castel, N Allègre, S Covin, A Bihouée, M Soumillon, T Mikkelsen, P Barrière, C Chazaud, J Chappell, V Pasque, J Bourdon, T Fréour, L David Integrated pseudotime analysis of human pre-implantation embryo single-cell transcriptomes reveals the dynamics of lineage specification Cell Stem Cell, 2021 -05-17;0(0):. 2021-05-17 [PMID: 34004179]

Karvas, RM;Zemke, JE;Ali, SS;Upton, E;Sane, E;Fischer, LA;Dong, C;Park, KM;Wang, F;Park, K;Hao, S;Chew, B;Meyer, B;Zhou, C;Dietmann, S;Theunissen, TW; 3D-cultured blastoids model human embryogenesis from pre-implantation to early gastrulation stages Cell stem cell 2023-09-07 [PMID: 37683602]

Tervaniemi MH, Katayama S, Skoog T et al. NOD-like receptor signaling and inflammasome-related pathways are highlighted in psoriatic epidermis. Sci Rep. 2016-03-15 [PMID: 26976200] (IHC-P, Human)

Details:
HDAC1 antibody was used for WB analysis of abdominal aorta samples from control subjects and the patients undergoing abdominal aortic aneurysms /AAA.

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Products Related to NBP1-83118

NBP1-83118PEP	IFI16 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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