

Product Datasheet

NFIX Antibody - BSA Free NBP2-15039

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 9

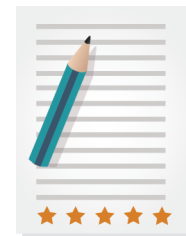
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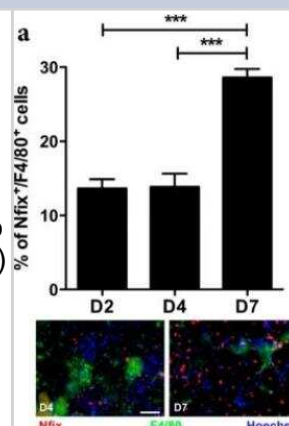
NBP2-15039

NFIX Antibody - BSA Free

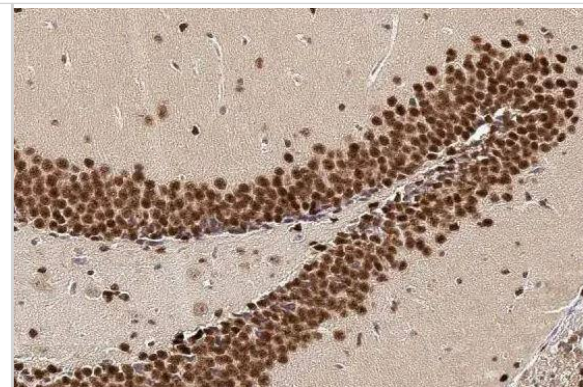
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	55 kDa
Product Description	
Description	Novus Biologicals Rabbit NFIX Antibody - BSA Free (NBP2-15039) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and ChIP. Anti-NFIX Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4784
Gene Symbol	NFIX
Species	Mouse
Reactivity Notes	Xenopus laevis (90%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human NFIX. The exact sequence is proprietary.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot Reported in scientific literature (PMID: 30266829)., Immunohistochemistry 1:100-1:1000, Immunocytochemistry/Immunofluorescence Reported in scientific literature (PMID: 30266829)., Immunohistochemistry-Paraffin 1:100-1:1000, Chromatin Immunoprecipitation (ChIP) Reported in scientific literature (PMID: 30266829).

Images

Immunocytochemistry/Immunofluorescence: NFIX Antibody [NBP2-15039] - Nfix is mainly expressed by anti-inflammatory MPs. Percentage of F4/80+ MPs positive for Nfix in Tibialis Anterior muscles (TA) of WT mice injected by CTX at D2, D4 and D7, post-injury. Immunostaining for F4/80 (green), Nfix (red) and DAPI (blue) at D4 and D7 after CTX injection. Results are means +/- SEM of at least three independent experiments. Scale bar = 50 um. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2073-4409/9/3/708>) licensed under a CC-BY license.



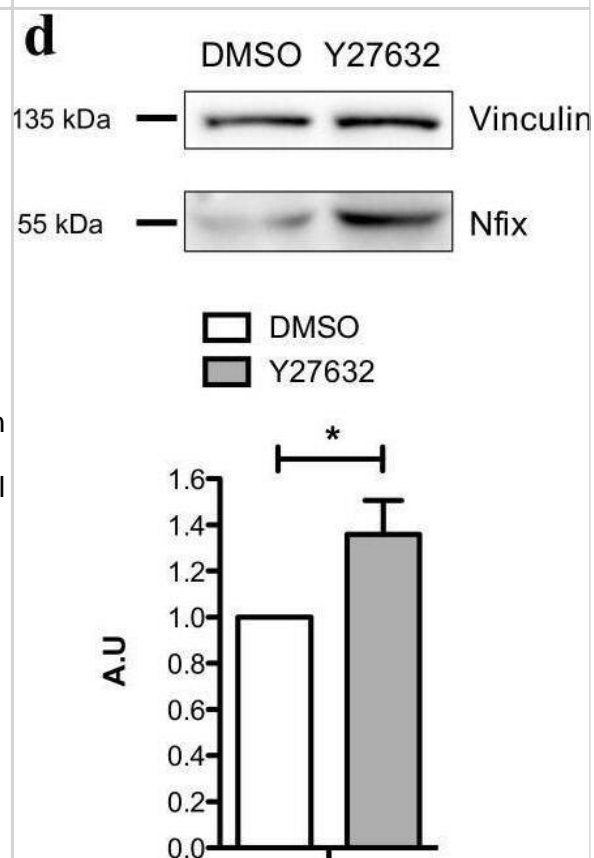
Immunohistochemistry-Paraffin: NFIX Antibody [NBP2-15039] - Mouse hippocampus. NFIX stained by NFIX antibody [N3C3] diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



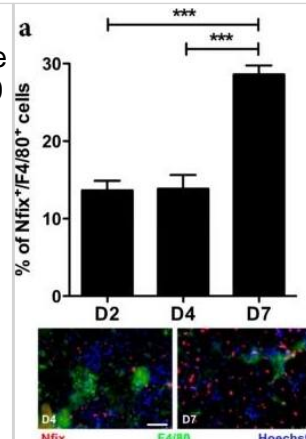
Immunohistochemistry-Paraffin: NFIX Antibody [NBP2-15039] - Mouse hippocampus. NFIX stained by NFIX antibody [N3C3] diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Nfix is expressed after phagocytosis and drive MP phenotypical switch. (a) Phagocytosis assay of M1 and M2c Nfixfl/fl and LysMCRE:Nfixfl/fl MPs cocultured 8h with apoptotic mpc. Representative FACS gate of phagocytotic M2c Nfixfl/fl and LysMCRE:Nfixfl/fl MPs (CD64+CellVue+) and percentage of phagocytotic M1 and M2c MPs coming from Nfixfl/fl and LysMCRE:Nfixfl/fl BMDM; (b) WT MPs were cocultured 16h with apoptotic mpcs. Representative FACS gate of non-phagocytotic (CD64+CellVue-) and phagocytotic (CD64+CellVue+) WT MPs. Quantification of Nfix expression realized by RT-qPCR on sorted non-phagocytotic and phagocytotic WT MPs and quantification of MPs positive for Nfix (Nfix+/F4/80+) realized by IF on non-phagocytotic and phagocytotic WT MPs; (c) WT MPs were cocultured for 16 h with apoptotic mpcs, with or without addition of Cytochalasin D. Quantification of F4/80+ MPs were positive for Nfix on a total of F4/80+ MPs; (d) Western blot of Nfix expression in WT MPs treated with DMSO (Dimethyl sulfoxide) or Y27632 for 16 h and quantification. Vinculin was used to normalize; (e) WT MPs were treated with DMSO or Y27632 for 16 h and were immunolabeled for pro-inflammatory markers (iNOS and TNF α) and anti-inflammatory markers (TGF β and CD163). The number of positive cells is expressed as percentage out of total cells; (f) LysMCRE:Nfixfl/fl MPs were treated with DMSO or Y27632 for 16 h and were immunolabeled for pro-inflammatory markers (iNOS and TNF α) and anti-inflammatory markers (TGF β and CD163). The number of positive cells is expressed as percentage out of total cells. * $p < 0.05$, *** $p < 0.001$. Results are means \pm SEM of at least three independent experiments. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32183151>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Nfix is mainly expressed by anti-inflammatory MPs. (a) Percentage of F4/80+ MPs positive for Nfix in Tibialis Anterior muscles (TA) of WT mice injected by CTX at D2, D4 and D7, post-injury. Immunostaining for F4/80 (green), Nfix (red) and DAPI (blue) at D4 and D7 after CTX injection; (b) Percentage of Ly6C+ and Ly6C- sorted MPs positive for Nfix in TA muscles of WT mice injected by CTX at D2, D4 and D7 post-injury; (c) Percentage of Nfix+ MPs after M1 and M2c polarization (with IFN γ and IL10, respectively). * $p < 0.05$; *** $p < 0.001$; for (b) * $p < 0.05$ Ly6C+ vs. Ly6C- at D4 and D7; # $p < 0.05$ Ly6C- D7 vs. D2. Results are means \pm SEM of at least three independent experiments. Scale bar = 50 μ m. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32183151>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Saclier M, Lapi M, Bonfanti C et al. The Transcription Factor Nfix Requires RhoA-ROCK1 Dependent Phagocytosis to Mediate Macrophage Skewing during Skeletal Muscle Regeneration Cells 2020-03-13 [PMID: 32183151] (Immunohistochemistry, Mouse)

Ishikawa A, Fukui T, Kido A et al. Discovering cancer stem-like molecule, nuclear factor I X, using spatial transcriptome in gastric cancer Cancer Science 2024-07-17 [PMID: 39021298]

Martins SG, Ribeiro V, Melo C et al. Laminin- α 2 chain deficiency in skeletal muscle causes dysregulation of multiple cellular mechanisms Life Science Alliance 2024-10-08 [PMID: 39379105]

Ge R, Wang C, Liu J et al. A Novel Tumor-Promoting Role for Nuclear Factor IX in Glioblastoma Is Mediated through Transcriptional Activation of GINS1 Molecular Cancer Research 2022-12-28 [PMID: 36469009]

Ribeiro VFL How Lama2-deficiency impacts myoblast differentiation in a mouse model for LAMA2-congenital muscular dystrophy Thesis 2022-01-01 (ICC/IF, Mouse, Human)

Liu Z, Ge R, Zhou J et al. Nuclear factor IX promotes glioblastoma development through transcriptional activation of Ezrin Oncogenesis 2020-04-14 [PMID: 32291386] (Chemotaxis, Mouse)

Zhou F, Yuan Q, Zhang W et al. MiR-663a Stimulates Proliferation and Suppresses Early Apoptosis of Human Spermatogonial Stem Cells by Targeting NFIX and Regulating Cell Cycle. Molecular Therapy - Nucleic Acids 2018-09-01 [PMID: 30195770]

Taglietti V, Angelini G, Mura G et al. RhoA and ERK signalling regulate the expression of the myogenic transcription factor Nfix. Development 2018-09-28 [PMID: 30266829] (Chemotaxis, ICC/IF, WB, Mouse)

Taglietti V, Maroli G, Cermenati S et al. Nfix Induces a Switch in Sox6 Transcriptional Activity to Regulate MyHC-I Expression in Fetal Muscle. Cell Rep. 2016-11-22 [PMID: 27880909] (IF/IHC, Mouse)



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Products Related to NBP2-15039

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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

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