

Product Datasheet

NFATC1/NFAT2 Antibody - BSA Free NBP2-57739

Unit Size: 100 ul

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

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NBP2-57739**NFATC1/NFAT2 Antibody - BSA Free**

Product Information	
Unit Size	100 ul
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	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

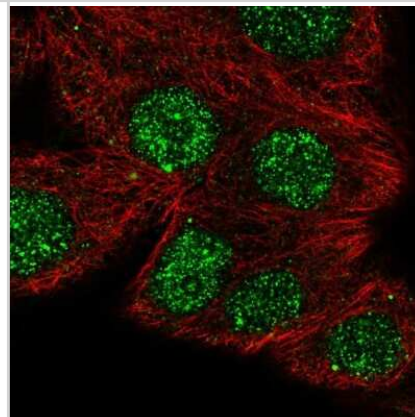
Product Description	
Description	Novus Biologicals Rabbit NFATC1/NFAT2 Antibody - BSA Free (NBP2-57739) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-NFATC1/NFAT2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4772
Gene Symbol	NFATC1
Species	Human, Mouse
Reactivity Notes	Rat 84%. Use in Mouse reported in scientific publication PMID: 32729236
Immunogen	This antibody was developed against a recombinant protein corresponding to the following amino acid sequence: GYGAALDGGPAGYFLSSGHTRPDGAPALESPRIEITSCGLGLYHNNNQFFHDVE VEDVLPSSKRSPSTATLSLPSLEAYRD

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation-exo-Seq
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Chromatin Immunoprecipitation-exo-Seq 1-10ug per reaction
Application Notes	ICC/IF, Fixation/Permeabilization: PFA/Triton X-100

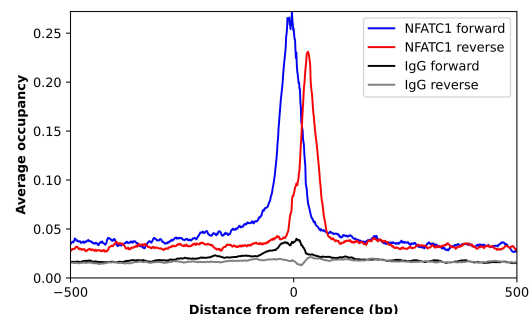


Images

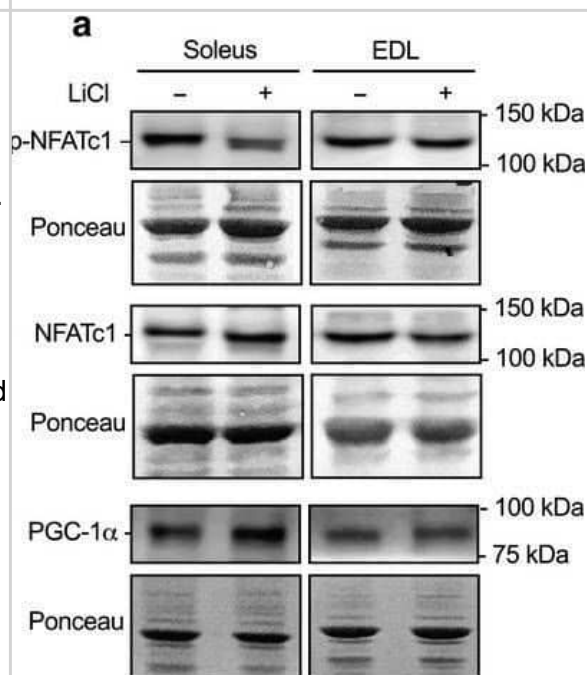
Immunocytochemistry/Immunofluorescence: NFATC1/NFAT2 Antibody [NBP2-57739] - Staining of human cell line MCF7 shows localization to nucleoplasm & nuclear bodies.



ChIP-Exo-Seq composite graph for Anti-NFATC1 (NBP2-57739) tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment compared to a non-specific IgG control and precisely reveals its structural organization around the binding site. Data generated by Prof. B. F. Pugh's Lab at Cornell University.



Effects of low-dose lithium supplementation on soleus and extensor digitorum longus (EDL) NFAT activation, PGC1 α and MHC isoform expression. (a) Representative Western blot images of phosphorylated and total nuclear factor activated T cells (pNFATc1 and NFATc1) and peroxisome proliferator-activated receptor gamma coactivator 1 α (PGC1 α), all of which are downstream markers of calcineurin signaling. For pNFATc1, NFATc1, and PGC1 α , 7.5 μ g of total protein was loaded into each well. (b) Quantification of pNFATc1 and NFATc1 were first normalized to ponceau prior to calculating the pNFATc1/NFATc1 ratio. (c) Quantification of PGC1 α content in soleus and EDL muscles in control-fed and LiCl groups normalized to ponceau. (d) Representative Western blot images of MHC I and IIa in soleus muscles from control and lithium-fed mice. For both isoforms, 5 μ g of total protein was loaded into each well. Quantification of MHC I (e) and MHC IIa (f) normalized to ponceau. For (b,c) and (e,f), all data are expressed relative to control. * $p < .05$, significantly different from control, using a Student's t tests ($n = 6-9$ per group). All data are expressed as means \pm SD. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32729236>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Fajardo VA, Watson CJF, Bott KN et al. Neurogranin is expressed in mammalian skeletal muscle and inhibits calcineurin signaling and myoblast fusion American Journal of Physiology-Cell Physiology 2019-11-01 [PMID: 31433693]

Whitley KC, Hamstra SI, Baranowski RW et al. GSK3 inhibition with low dose lithium supplementation augments murine muscle fatigue resistance and specific force production Physiol Rep 2020-07-01 [PMID: 32729236] (WB, Mouse)



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 NBP2-57739

NBP2-57739PEP	NFATC1/NFAT2 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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