

Product Datasheet

Ryanodine Receptor 2 Antibody - BSA Free NBP1-90091

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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NBP1-90091

Ryanodine Receptor 2 Antibody - BSA Free

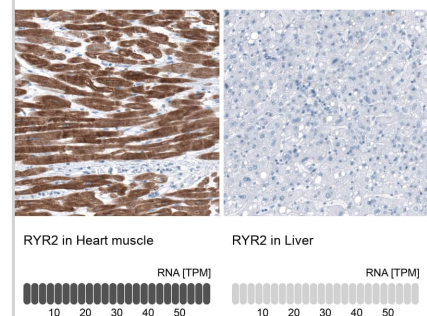
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	6262
Gene Symbol	RYR2
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30483051).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: QDEVRGDGEGERKPLEAALPSEDLTKELTEESDLLSDIFGLDLKREGGQY KLIPHNPAGLSDLMSNPVPMPEVQEKFQEQKAKEEEKEEKEETKSEPE

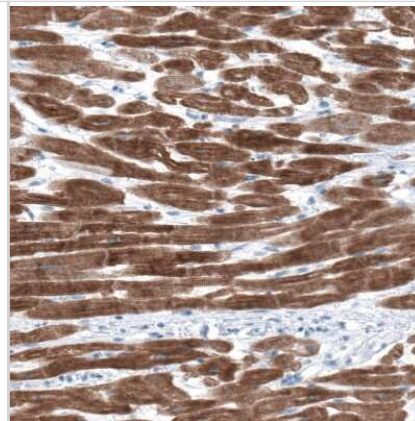
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry Free-Floating
Recommended Dilutions	Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:500 - 1:1000, Immunohistochemistry Free-Floating Reported in scientific literature (PMID:30483051).
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

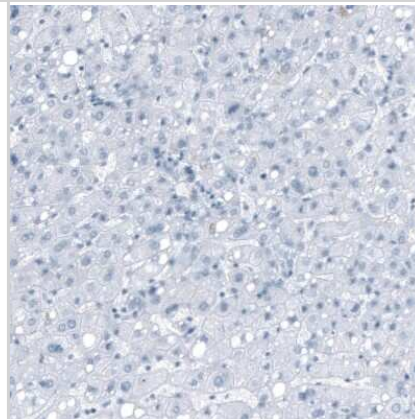
Analysis in human heart muscle and liver tissues using NBP1-90091 antibody. Corresponding RYR2 RNA-seq data are presented for the same tissues.



Immunohistochemistry-Paraffin: Ryanodine Receptor 2 Antibody [NBP1-90091] - Staining of human heart muscle shows moderate to strong cytoplasmic positivity in cardiomyocytes.



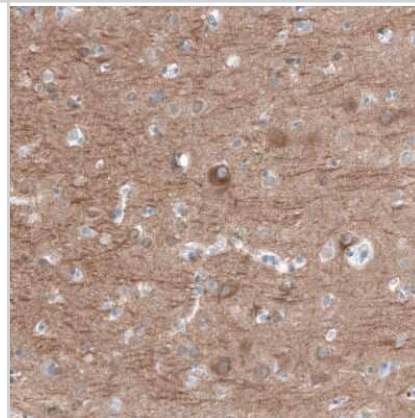
Immunohistochemistry-Paraffin: Ryanodine Receptor 2 Antibody [NBP1-90091] - Staining of human liver shows no positivity in hepatocytes as expected.



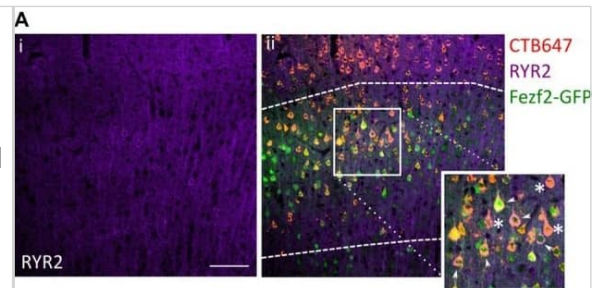
Immunohistochemistry-Paraffin: Ryanodine Receptor 2 Antibody [NBP1-90091] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



Immunohistochemistry-Paraffin: Ryanodine Receptor 2 Antibody [NBP1-90091] - Staining of human cerebral cortex shows moderate cytoplasmic positivity in neurons.



Validation of enriched RYR2 expression in Fezf2+ve IT-PNs by immunohistochemistry. Coronal sections from CTB647 injected Fezf2-Gfp mouse were labeled for Ryanodine receptor 2 (RYR2) expression and images captured in M1. (Ai) RYR2 expression in M1. (ii) Image shows co-expression of RYR2 (purple) with Fezf2+ve IT-PNs (green and red; arrowhead) and Fezf2-ve IT-PNs (red; asterisk). Dashed lines indicate layer 5 from which cells were selected for quantification. Scale bar is 100 μ m. (B) Normalized percentage area of cell body labeled for RYR2 expression in Fezf2+ve and Fezf2-ve IT-PNs. There is a significant decrease of RYR2 protein expression in Fezf2-ve IT-PN cell bodies ($p < 0.05$, paired t-test, $n = 3$; +/- SEM). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/30483051>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Clare AJ, Day RC, Empson RM, Hughes SM Transcriptome Profiling of Layer 5 Intratelencephalic Projection Neurons From the Mature Mouse Motor Cortex Front Mol Neurosci. 2018-11-11 [PMID: 30483051] (IHC-FrFI, 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 NBP1-90091

NBP1-90091PEP	Ryanodine Receptor 2 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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