Product Datasheet

Ryanodine Receptor Antibody (34C) - BSA Free NB300-543

Unit Size: 100 uL

Store at -20C. Avoid freeze-thaw cycles.

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NB300-543

Ryanodine Receptor Antibody (34C) - BSA Free	
Product Information	
Unit Size	100 uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	34C
Preservative	0.05% Sodium Azide
Isotype	lgG1
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	565 kDa
Product Description	
Description	Novus Biologicals Mouse Ryanodine Receptor Antibody (34C) - BSA Free (NB300-543) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Ryanodine Receptor Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6261
Gene Symbol	RYR1
Species	Human, Mouse, Rat, Amphibian, Bovine, Canine, Fish, Ferret, Mink, Primate, Rabbit, Sheep
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	This antibody detects ryanodine receptor Ryanodine Receptor-1 and Ryanodine Receptor-2 isoforms in amphibian, chicken, bovine, canine, fish, human, non-human primate, mouse, rabbit, mink, rat and sheep tissues. In chicken, it detects the alpha, beta and cardiac isoforms. This antibody also detects Ryanodine Receptor-3 in mouse cells. In frog, it detects the alpha and beta isoforms and in fish it detects the alpha isoform.
Immunogen	Partially purified chicken pectoral muscle ryanodine receptor.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Block/Neutralize
Recommended Dilutions	Western Blot 1:5000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/Immunofluorescence, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:10 - 1:500, Immunohistochemistry-Frozen 1:1000, Block/Neutralize

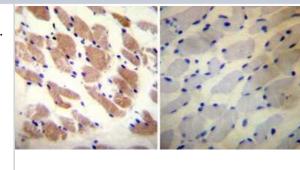


Application Notes

May be useful in IF, IHC-Fr, IP, and WB. WB: Detects an approx. 565 kDa protein representing RyR from rat skeletal muscle extracts. In non-mammalian vertebrates, a doublet is seen at 565 kDa representing the alpha and beta isoforms of the receptor. IHC: Staining of RyR in chicken brain results in intense staining of cerebral Purkinje neurons. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 15564379).

Images

Immunohistochemistry-Paraffin: Ryanodine Receptor Antibody (34C) [NB300-543] - Biopsies of deparaffinized Human skeletal muscle tissue.



Publications

Liu Z et al. Three-dimensional reconstruction of the recombinant type 3 ryanodine receptor localization of its amino terminus. Proc Natl Acad Sci U S A 98:6104-9. 2001-01-01 [PMID: 11353864]

Yamada KA et al. Long-chain acylcarnitine induces Ca2+ efflux from the sarcoplasmic reticulum. J Cardiovasc Pharmacol 36:14-21. 2000-01-01 [PMID: 10892655]

Chan SL et al. Presenilin-1 mutations increase levels of ryanodine receptors calcium release in PC12 cells cortical neurons. J Biol Chem 275:18195-200. 2000-01-01 [PMID: 10764737]

Moore RA et al. A transgenic myogenic cell line lacking ryanodine receptor protein for homologous expression studies: reconstitution of Rv1R protein function. J Cell Biol 140:843-51. 1998-01-01 [PMID: 9472036]

Protasi F et al. Role of ryanodine receptors in the assembly of calcium release units in skeletal muscle. J Cell Biol 140:831-42. 1998-01-01 [PMID: 9472035]

Chen SR et al. Positioning of major tryptic fragments in the Ca2+ release channel (ryanodine receptor) resulting from partial digestion of rabbit skeletal muscle sarcoplasmic reticulum. J Biol Chem 268:22642-9. 1993-01-01 [PMID: 8226772]

Airey JA et al. Three ryanodine receptor isoforms exist in avian striated muscles. Biochemistry 32:5739-45. 1993-01-01 [PMID: 7684927]

Airey JA et al. Identification localization of two triad junctional foot protein isoforms in mature avian fast twitch skeletal muscle. J Biol Chem 265:14187-94. 1990-01-01 [PMID: 2387846]

Walton PD et al. Ryanodine inositol trisphosphate receptors coexist in avian cerebellar Purkinje neurons. J Cell Biol 113:1145-57. 1991-01-01 [PMID: 1645737]

Naukkarinen A. Myotonic dystrophy type 2 (DM2): Diagnostic methods and molecular pathology . 2011; University of Helsinki, Finland.

Jordan T et al. Inhibition of ryanodine receptor 1 in fast skeletal muscle fibers induces a fast-to-slow muscle fiber type transition. J Cell Sci; 117(Pt 25):6175-83. 2004-12-01 [PMID: 15564379] (ICC/IF)

Liu G et al. Molecular interaction between ryanodine receptor and glycoprotein triadin involves redox cycling of functionally important hyperreactive sulfhydryls. J Biol Chem 269 (52):33028-34. 1994-12-30 [PMID: 7806531] (B/N)





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

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