

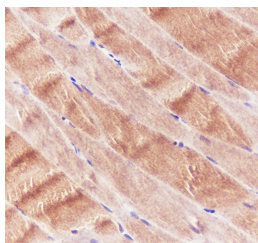
Recombinant Ryanodine Receptor Monoclonal Antibody

catalog number: **AN301983L**

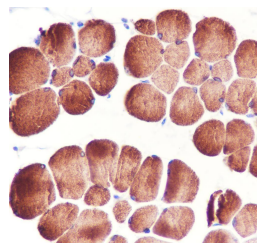
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description	
Reactivity	Human;Rat;Mouse
Immunogen	Peptide. This information is proprietary to PTMab.
Host	Rabbit
Isotype	IgG, κ
Clone	C151604
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.
Applications	Recommended Dilution
IHC	1:500-1:1000

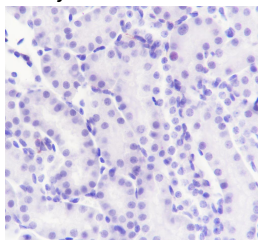
Data



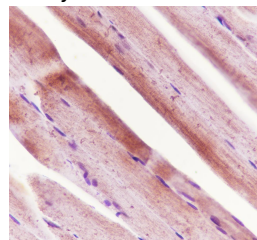
Immunohistochemistry of paraffin-embedded Human skeletal muscle using Ryanodine Receptor Monoclonal Antibody at dilution of 1:1000.



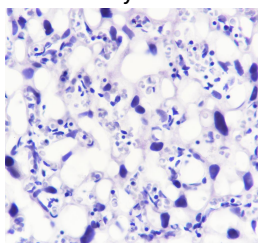
Immunohistochemistry of paraffin-embedded Mouse skeletal muscle using Ryanodine Receptor Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Mouse kidney (negative tissue) using Ryanodine Receptor Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Rat skeletal muscle using Ryanodine Receptor Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Rat placenta (negative tissue) using Ryanodine Receptor Monoclonal Antibody at dilution of 1:1000.

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

For Research Use Only

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Web: www.elabscience.com

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Email: techsupport@elabscience.com

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Rev. V1.2

Shipping

Ice bag

Background

Ryanodine receptors (RyRs) are large (>500 kDa), intracellular calcium channels found in the sarcoplasmic/endoplasmic reticulum membrane and are responsible for the release of Ca^{2+} from intracellular stores in excitable cells, such as muscle and neurons. RyRs exist as three mammalian isoforms (RyR1-3), all of which form homotetramers regulated by phosphorylation and/or direct or indirect interaction with a variety of proteins (L-type calcium channels, PKA, FKBP12/12.6, CaMKII, calmodulin, calsequestrin, junctin, and triadin) and ions (Mg^{2+} and Ca^{2+}). Regulation of the RyR channel by protein modulators occurs within the large cytoplasmic domain, whereas the carboxy terminal portion of the protein forms the ion-binding and conducting pore. RyR1 and RyR2 are predominantly expressed in skeletal and cardiac muscle, respectively, where they localize exclusively to the sarcoplasmic reticulum (SR) and facilitate calcium-mediated communication between transverse-tubules and sarcoplasmic reticulum. Contraction of skeletal muscle is triggered by release of calcium ions from the SR following depolarization of T-tubules. Research studies have shown that defects in RyR1 are the cause of malignant hyperthermia susceptibility type 1 (MHS1), central core disease of muscle (CCD), multiminicore disease with external ophthalmoplegia, and congenital myopathy with fiber-type disproportion (CFTD), each of which is manifested by defects in muscle function, metabolism, and development.

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