

Rabbit RYR3 Polyclonal Antibody | anti-RYR3 antibody

Phospho-RYR3 (Ser160) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329409	Rabbit	Human, Mouse Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%)	ELISA, Western Blot

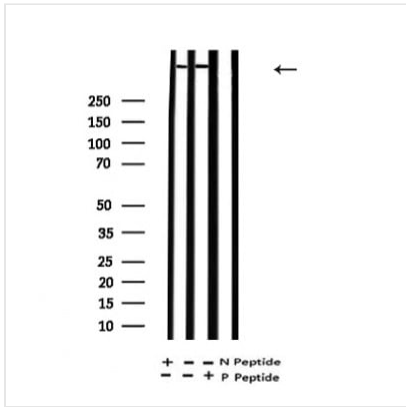
PRODUCT SYNONYMS

RYR3; Polyclonal Antibody; Phospho-RYR3 (Ser160) Antibody; Brain ryanodine receptor calcium release channel; Brain ryanodine receptor-calcium release channel; Brain type ryanodine receptor; Brain-type ryanodine receptor; HBRR; Ryanodine receptor 3; RYR 3; RYR-3; RyR3; RYR3_HUMAN; anti-RYR3 antibody

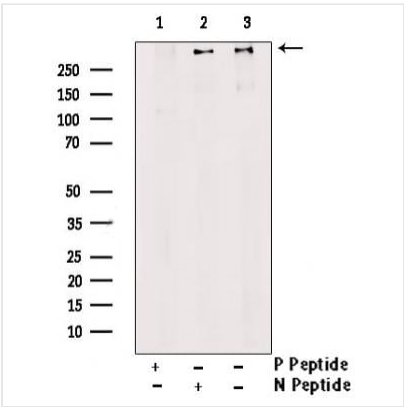
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-RYR3 (Ser160) Antibody detects endogenous levels of RYR3 only when phosphorylated at Ser160. Tissue Specificity: Brain, skeletal muscle, placenta and possibly liver and kidney. In brain, highest levels are found in the cerebellum, hippocampus, caudate nucleus and amygdala, with lower levels in the corpus callosum, substantia nigra and thalamus.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-RYR3 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RYR3 around the phosphorylation site of Ser160.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Homotetramer. Heterotetramer with RYR2. Interacts with CALM (By similarity). Interacts with FKBP1A. Interacts with SELENON (By similarity).
Similarity	The calcium release channel activity resides in the C-terminal region while the remaining part of the protein resides in the cytoplasm. Belongs to the ryanodine receptor (TC 1.A.3.1) family. RYR3 subfamily.
Subcellular Location	Sarcoplasmic reticulum membrane>Multi-pass membrane protein. Membrane>Multi-pass membrane protein. Microsome membrane>Multi-pass membrane protein. Sarcoplasmic reticulum. Note: The number of predicted transmembrane domains varies between orthologs, but both N-terminus and C-terminus seem to be cytoplasmic.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

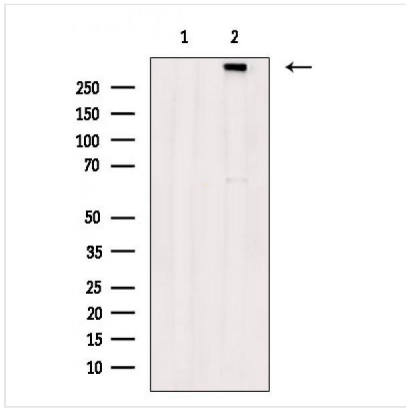
IMAGES



WB (Western Blot)
Western blot analysis of Phospho-RYR3(Ser160) in lysates of Mouse muscle, using Phospho-RYR3(Ser160) Antibody(AF4311).



WB (Western Blot)
Western blot analysis of extracts from Mouse muscle tissue, using Phospho-RYR3(Ser160) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells(LPS 4h treatment), using Phospho-RYR3 (Ser160) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RYR3 antibody	Calcium channel that mediates the release of Ca (2+) from the sarcoplasmic reticulum into the cytoplasm in muscle and thereby plays a role in triggering muscle contraction. May regulate Ca (2+) release by other calcium channels. Calcium channel that mediates Ca (2+)-induced Ca (2+) release from the endoplasmic reticulum in non-muscle cells. Contributes to cellular calcium ion homeostasis (By similarity). Plays a role in cellular calcium signaling.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	3123584
NCBI GeneID	6263
UniProt Accession #	Q15413; O15175; Q15412
Molecular Weight	551,484 Da
NCBI Official Full Name	ryanodine receptor 3
NCBI Official Synonym Full Names	ryanodine receptor 3
NCBI Official Symbol	RYR3
NCBI Official Synonym Symbols	RYR-3
NCBI Protein Information	ryanodine receptor 3

UniProt Protein Name	Ryanodine receptor 3
UniProt Gene Name	RYR3
UniProt Synonym Gene Names	HBRR; RYR-3; RyR3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ryr3-antibody-peptide-elisa-western-blot-elisa/329409>