RyR-2 Rabbit pAb

CatalogNo: YT4196

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• WB,IHC,IF,ELISA

MW	Isotype
• 200-300kD (Observed)	• IgG

Recommended Dilution Ratios

WB 1:500-2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:5000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human RyR2. AA range:2774-2823
Specificity	RyR-2 Polyclonal Antibody detects endogenous levels of RyR-2 protein.

Target Information

Gene name RYR2

Protein Name Ryanodine receptor 2

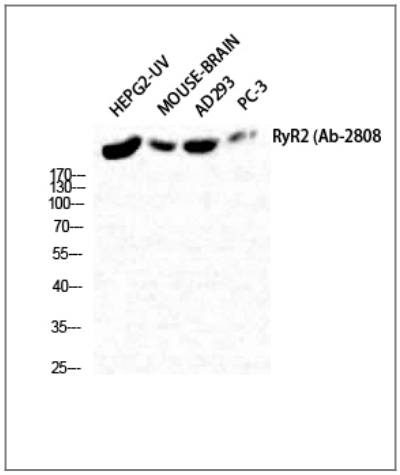
Organism	Gene ID	UniProt ID
Human	6262;	Q92736;
Mouse	20191;	E9Q401;
Rat	689560;	B0LPN4;

Cellular Localization Sarcoplasmic reticulum membrane ; Multi-pass membrane protein . Membrane ; Multi-pass membrane protein . Sarcoplasmic reticulum . The number of predicted transmembrane domains varies between orthologs, but both N-terminus and C-terminus seem to be cytoplasmic. .

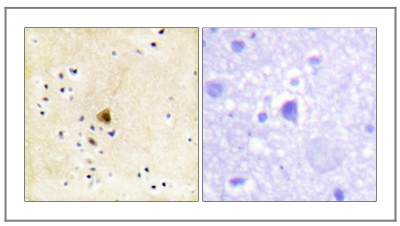
Tissue specificity Detected in heart muscle (at protein level). Heart muscle, brain (cerebellum and hippocampus) and placenta.

Function developmental stage:Expressed in myometrium during pregnancy.,Disease:Defects in RYR2 are the cause of catecholaminergic polymorphic ventricular tachycardia type 1 (CPVT1) [MIM:604772]; also known as stress-induced polymorphic ventricular tachycardia (VTSIP). CPVT1 is an autosomal dominant form of arrhythmogenic disorder characterized by stress-induced, bidirectional ventricular tachycardia that may degenerate into cardiac arrest and cause sudden death.,Disease:Defects in RYR2 are the cause of familial arrhythmogenic right ventricular dysplasia 2 (ARVD2) [MIM:600996]; also known as arrhythmogenic right ventricular cardiomyopathy 2 (ARVC2). ARVD is an autosomal dominant disease characterized by partial degeneration of the myocardium of the right ventricle, electrical instability, and sudden death. It is clinically defined by electrocardiographic and angiographic criteria; pathologic findings, replacement of ventricular myocardium with fatty and fibrous elements, preferentially involve the right ventricular free wall.,Function:Communication between transverse-tubules and sarcoplasmic reticulum. Contraction of cardiac muscle is triggered by release of calcium ions from SR following depolarization of T-tubules.,induction:By TGF-beta.,miscellaneous:Ryanodine is an alkaloid that binds to the Ca-release channel in junctional SR and modulates its activity.,miscellaneous:The calcium release channel activity resides in the C-terminal region while the remaining part of the protein constitutes the 'foot' structure spanning the junctional gap between the SR and the T-tubule. It is possible that the foot structure interacts with the cytoplasmic region of the dihydropyridine receptor.,miscellaneous:The calcium release channel is modulated by calcium ions, magnesium ions, ATP and calmodulin.,online information:Ryanodine receptor entry,online information:RYR2 entry,similarity:Belongs to the ryanodine receptor family.,similarity:Contains 2 EF-hand domains.,similarity:Contains 3 B30.2/SPRY domains.,similarity:Contains 5 MIR domains.,subunit:Homotetramer .,tissue specificity:Heart muscle, brain (cerebellum and hippocampus) and placenta.,

Validation Data



Western Blot analysis of HepG2-UV MOUSE-BRAIN AD293 PC-3 cells using RyR-2 Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using RyR2 Antibody. The picture on the right is blocked with the synthesized peptide.

Contact information

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Please scan the QR code to access additional product information:
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