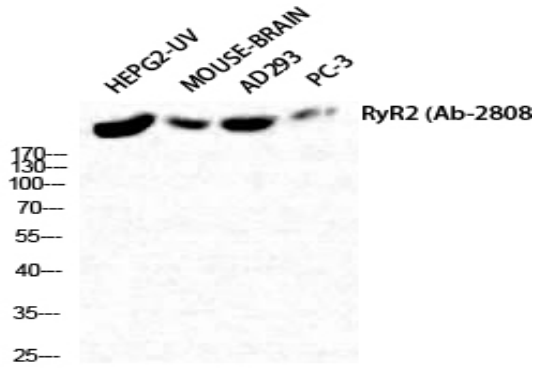
Best Tools for immunology Research

RyR-2 Polyclonal Antibody

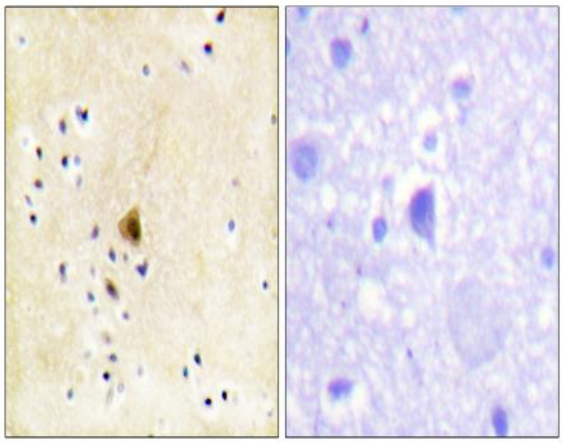
Catalog No :	YT4196
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	RyR-2
Fields :	>>Calcium signaling pathway;>>cAMP signaling pathway;>>Cardiac muscle contraction;>>Adrenergic signaling in cardiomyocytes;>>Apelin signaling pathway;>>Circadian entrainment;>>Insulin secretion;>>Oxytocin signaling pathway;>>Pancreatic secretion;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy;>>Diabetic cardiomyopathy
Gene Name :	RYR2
Protein Name :	Ryanodine receptor 2
Human Gene Id :	6262
Human Swiss Prot No :	Q92736
Mouse Gene Id :	20191
Mouse Swiss Prot No :	E9Q401
Rat Gene Id :	689560
Rat Swiss Prot No :	B0LPN4
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.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	200-300kD
Cell Pathway :	Calcium;Cardiac muscle contraction;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy (ARVC);Dilated cardiomyopathy;
Background :	This gene encodes a ryanodine receptor found in cardiac muscle sarcoplasmic reticulum. The encoded protein is one of the components of a calcium channel, composed of a tetramer of the ryanodine receptor proteins and a tetramer of FK506 binding protein 1B proteins, that supplies calcium to cardiac muscle. Mutations in this gene are associated with stress-induced polymorphic ventricular tachycardia and arrhythmogenic right ventricular dysplasia. [provided by RefSeq, Jul 2008],
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 findi
Subcellular Location :	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. .
Expression :	Detected in heart muscle (at protein level). Heart muscle, brain (cerebellum and hippocampus) and placenta.

Products Images



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.