Best Tools for immunology Research

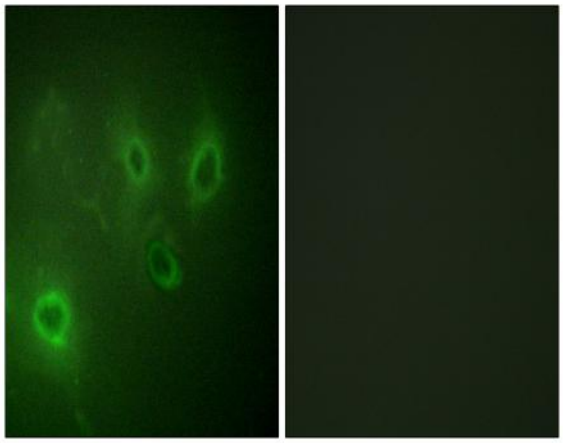
IP3R-I Polyclonal Antibody

Catalog No :	YT2381
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;ELISA
Target :	IP3 Receptor
Fields :	>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>Phosphatidylinositol signaling system;>>Oocyte meiosis;>>Autophagy - animal;>>Apoptosis;>>Cellular senescence;>>Vascular smooth muscle contraction;>>Apelin signaling pathway;>>Gap junction;>>Platelet activation;>>NOD-like receptor signaling pathway;>>C-type lectin receptor signaling pathway;>>Circadian entrainment;>>Long-term potentiation;>>Retrograde endocannabinoid signaling;>>Glutamatergic synapse;>>Cholinergic synapse;>>Serotonergic synapse;>>Dopaminergic synapse;>>Long-term depression;>>Inflammatory mediator regulation of TRP channels;>>GnRH signaling pathway;>>Estrogen signaling pathway;>>Thyroid hormone synthesis;>>Oxytocin signaling pathway;>>Glucagon signaling pathway;>>Renin secretion;>>Aldosterone synthesis and secretion;>>Cortisol synthesis and secretion;>>Parathyroid hormone synthesis, secretion and action;>>GnRH secretion;>>Cushing syndrome;>>Growth hormone synthesis, secretion and action;>>Salivary secretion;>>Ga
Gene Name :	ITPR1
Protein Name :	Inositol 1,4,5-trisphosphate receptor type 1
Human Gene Id :	3708
Human Swiss Prot No :	Q14643
Mouse Gene Id :	16438
Mouse Swiss Prot No :	P11881
Rat Gene Id :	25262
Rat Swiss Prot No :	P29994

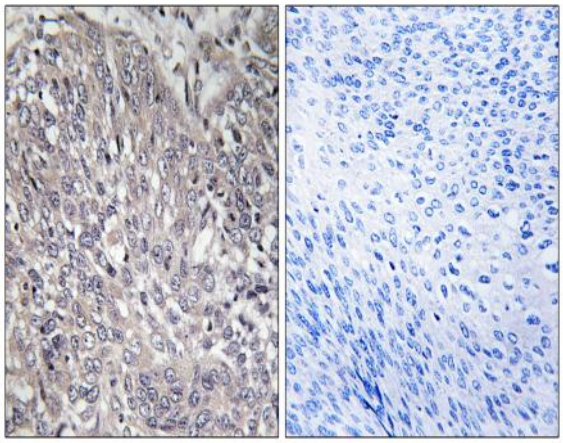
Immunogen :	The antiserum was produced against synthesized peptide derived from human InsP3R1. AA range:1566-1615
Specificity :	IP3R-I Polyclonal Antibody detects endogenous levels of IP3R-I protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. 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)
Molecularweight :	314kD
Cell Pathway :	Calcium;Phosphatidylinositol signaling system;Oocyte meiosis;Vascular smooth muscle contraction;Gap junction;Long-term potentiation;Long-term depression;GnRH;Alzheimer's disease;Huntington's disease;
Background :	This gene encodes an intracellular receptor for inositol 1,4,5-trisphosphate. Upon stimulation by inositol 1,4,5-trisphosphate, this receptor mediates calcium release from the endoplasmic reticulum. Mutations in this gene cause spinocerebellar ataxia type 15, a disease associated with an heterogeneous group of cerebellar disorders. Multiple transcript variants have been identified for this gene. [provided by RefSeq, Nov 2009],
Function :	alternative products:There is a combination of three alternatively spliced domains at site SI, SIII and site SII (A and C). Experimental confirmation may be lacking for some isoforms,disease:Defects in ITPR1 are the cause of spinocerebellar ataxia type 15 (SCA15) (SCA15) [MIM:606658]. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA15 is an autosomal dominant cerebellar ataxia (ADCA). It is very slow progressing form with a wide range of onset, ranging from childhood to adult. Most patients remain ambulatory.,domain:The receptor contains a calcium channel in its C-terminal extremity. Its large N-terminal cytoplasmic region has
Subcellular	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Cytoplasmic

Location :	vesicle, secretory vesicle membrane ; Multi-pass membrane protein . Cytoplasm, perinuclear region . Endoplasmic reticulum and secretory granules (By similarity). .
Expression :	Widely expressed.
Tag :	hot
Sort :	8639
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Immunofluorescence analysis of COS7 cells, using InsP3R1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human cervix carcinoma tissue, using InsP3R1 Antibody. The picture on the right is blocked with the synthesized peptide.