IP3R-I (phospho Ser1764) Polyclonal Antibody

Catalog No :	YP1098
Reactivity :	Human;Mouse;Rat
Applications :	WB;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 IP3R1 around the phosphorylation site of Ser1764. AA range:1730-1779

Specificity : Phospho-IP3R-I (S1764) Polyclonal Antibody detects endogenous levels of IP3R-I protein only when phosphorylated at S1764.

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. ELISA: 1:5000.. IF 1:50-200

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.

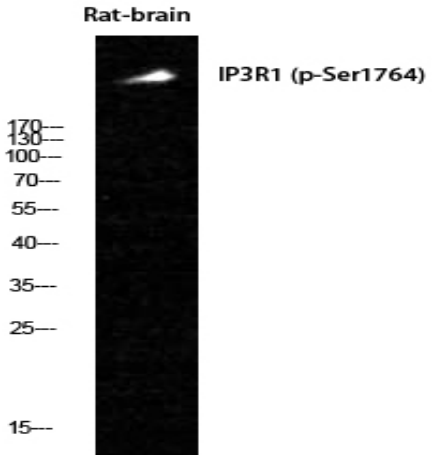
Sort : 8638

No4 : 1

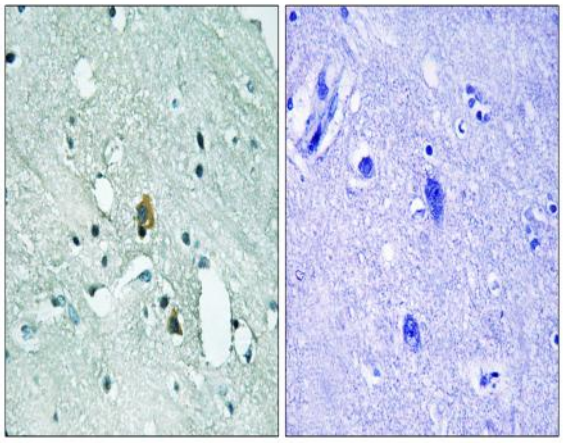
Host : Rabbit

Modifications : Phospho

Products Images



Western Blot analysis of Rat-brain cells using Phospho-IP3R-I (S1764) Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using IP3R1 (Phospho-Ser1764) Antibody. The picture on the right is blocked with the phospho peptide.