

For Research Use Only

# ITPR1-specific Polyclonal ANTIBODY



Catalog Number: 19962-1-AP **4 Publications**

## Basic Information

**Catalog Number:**

19962-1-AP

**Size:**

150UL, Concentration: 487 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_001099952

**GeneID (NCBI):**

3708

**Full Name:**

inositol 1,4,5-triphosphate receptor, type 1

**Calculated MW:**

314 kDa

**Observed MW:**

290-300 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:200-1:1000  
IP 0.5-4.0 µg for IP and 1:150-1:600 for WB  
IHC 1:50-1:500

## Applications

**Tested Applications:**

FC, IHC, IP, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

WB : mouse brain tissue, mouse liver tissue

IP : mouse brain tissue,

IHC : human brain tissue, human testis tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

ITPR1, also named as INSP3R1 and IP3R, belongs to the InsP3 receptor family. It is a receptor for inositol 1,4,5-trisphosphate which is a second messenger that mediates the release of intracellular calcium. Defects in ITPR1 are the cause of spinocerebellar ataxia type 15 (SCA15). The antibody has no cross reaction with ITPR2 and ITPR3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaolong Wang	29800586	Toxicology	WB
Ming Yang	31060900	EBioMedicine	WB
Xiaolong Wang	28730337	J Mol Neurosci	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

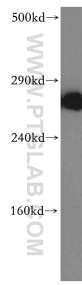
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

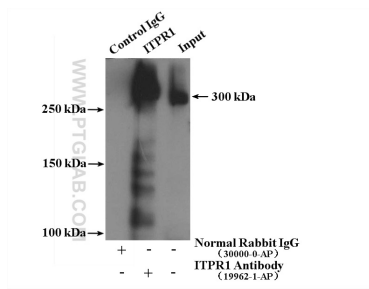
E: proteintech@ptglab.com  
W: ptglab.com

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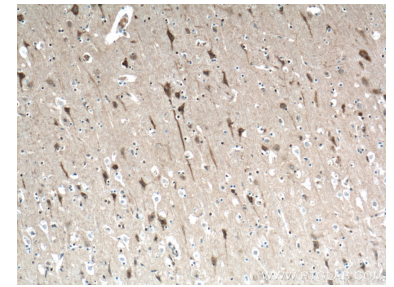
## Selected Validation Data



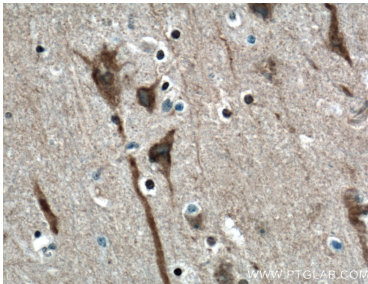
mouse brain tissue were subjected to SDS PAGE followed by western blot with 19962-1-AP (ITPR1-specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



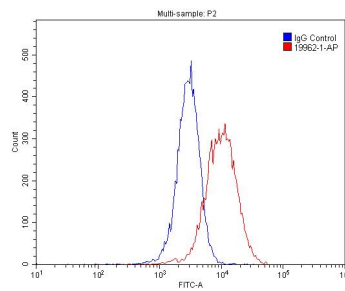
IP result of anti-ITPR1-specific (IP:19962-1-AP, 4ug; Detection:19962-1-AP 1:300) with mouse brain tissue lysate 3160 ug.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 19962-1-AP (ITPR1-specific antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 19962-1-AP (ITPR1-specific antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HepG2 cells were stained with .2ug ITPR1-specific antibody (19962-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.