bs-6471R **[Primary Antibody]**

ITPR3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3710 **SWISS:** Q14573

Target: ITPR3

Immunogen: KLH conjugated synthetic peptide derived from human ITPR3: 21-120/2671.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Inositol 1,4,5-triphosphate (IP3) functions as a second messenger for a myriad of extracellular stimuli including hormones, growth factors and neurotransmitters. Receptor tyrosine kinases indirectly increase the intracellular levels of IP3 through the activation of phospholipases such as phospholipase C (PLC), which convert phosphatidylinositol-4,5 bisphosphate into IP3 and diacylglycerol (DAG). The inositol 1,4,5-triphosphate receptor, IP3R, acts as an inositol triphosphate (IP3)-gated calcium release channel in a variety of cell types. Three IP3 receptor subtypes have been described and are designated IP3R-I, IP3R-II and IP3R-III. IP3R-I is the predominant IP3R subtype expressed in neuronal tissues and the central nervous system, but is also expressed at high levels in the liver.

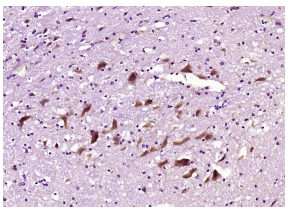
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:50-200)

Reactivity: Mouse, Dog (predicted: Human, Rat, Rabbit, Cow, Chicken, Horse)

Predicted MW.: 294 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ITPR3) Polyclonal Antibody, Unconjugated (bs-6471R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=5.8]** Lin Yiqun. et al. Mitochondria-associated endoplasmic reticulum membrane as a mediator of vanadium-induced endoplasmic reticulum quality control in duck brains. ENVIRON SCI POLLUT R. 2024 Mar;:1-17 IF ;Duck. 38446297
- **[IF=4.155]** Junjun Peng. et al. Endoplasmic reticulum-mitochondria coupling attenuates vanadium-induced apoptosis

via IP3R in duck renal tubular epithelial cells. J INORG BIOCHEM. J Inorg Biochem. 2022 Apr;:111809 WB ;Duck. 35421768

- **[IF=2.6]** Luan, Xinhong, et al. "Comparative proteomic analysis of pituitary glands from Huoyan geese between pre-laying and laying periods using an iTRAQ-based approach." PLOS ONE 12.9 (2017): e0185253. WB ;="Other Species". 28945779