

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

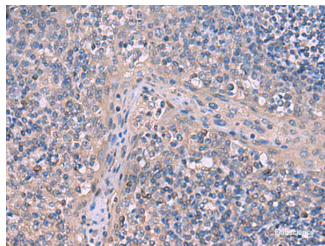
## Description

<b>Reactivity</b>	Human, Mouse, Rat
<b>Immunogen</b>	Synthetic peptide of human ITPR2
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Antigen affinity purification
<b>Conjugation</b>	Unconjugated
<b>Formulation</b>	PBS with 0.05% NaN <sub>3</sub> and 40% Glycerol,pH7.4

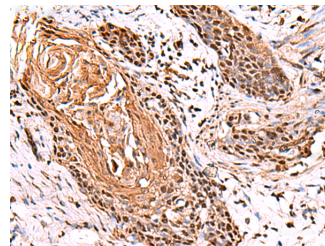
## Applications Recommended Dilution

<b>IHC</b>	1:50-1:300
<b>ELISA</b>	1:5000-1:10000

## Data



Immunohistochemistry of paraffin-embedded Human tonsil tissue using ITPR2 Polyclonal Antibody at dilution of 1:65(×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ITPR2 Polyclonal Antibody at dilution of 1:65(×200)

## Preparation & Storage

**Storage** Store at -20°C. Avoid freeze / thaw cycles.

## Background

Inositol 1,4,5-triphosphate (IP<sub>3</sub>) 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 IP<sub>3</sub> through the activation of phospholipases such as phospholipase C (PLC), which convert phosphatidylinositol-4,5 bisphosphate into IP<sub>3</sub> and diacylglycerol (DAG). The inositol 1,4,5-triphosphate receptor, IP<sub>3</sub>R, acts as an inositol triphosphate (IP<sub>3</sub>)-gated calcium release channel in a variety of cell types. Three IP<sub>3</sub> receptor subtypes have been described and are designated IP<sub>3</sub>R-I, IP<sub>3</sub>R-II and IP<sub>3</sub>R-III. IP<sub>3</sub>R-I is the predominant IP<sub>3</sub>R subtype expressed in neuronal tissues and the central nervous system, but is also expressed at high levels in the liver.

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