

**IL1RAPL1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2237a****Specification****IL1RAPL1 Antibody - Product Information**

Application	E, WB, IF, FC
Primary Accession	<a href="#">O9NZN1</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	80kDa KDa

**Description**

The protein encoded by this gene is a member of the interleukin 1 receptor family and is similar to the interleukin 1 accessory proteins. It is most closely related to interleukin 1 receptor accessory protein-like 2 (IL1RAPL2). This gene and IL1RAPL2 are located at a region on chromosome X that is associated with X-linked non-syndromic mental retardation. Deletions and mutations in this gene were found in patients with mental retardation. This gene is expressed at a high level in post-natal brain structures involved in the hippocampal memory system, which suggests a specialized role in the physiological processes underlying memory and learning abilities.

**Immunogen**

Purified recombinant fragment of human IL1RAPL1 (AA: 541-694) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**IL1RAPL1 Antibody - Additional Information**

**Gene ID** 11141

**Other Names**

Interleukin-1 receptor accessory protein-like 1, IL-1-RAPL-1, IL-1RAPL-1, IL1RAPL-1, Oligophrenin-4, Three immunoglobulin domain-containing IL-1 receptor-related 2, TIGIRR-2, X-linked interleukin-1 receptor accessory protein-like 1, IL1RAPL1, OPHN4

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IF~~1/200 - 1/1000  
FC~~1/200 - 1/400

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

IL1RAPL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **IL1RAPL1 Antibody - Protein Information**

**Name** IL1RAPL1

**Synonyms** OPHN4

### **Function**

May regulate secretion and presynaptic differentiation through inhibition of the activity of N-type voltage-gated calcium channel (PubMed:<a href="http://www.uniprot.org/citations/12783849" target="\_blank">12783849</a>). May activate the MAP kinase JNK (PubMed:<a href="http://www.uniprot.org/citations/15123616" target="\_blank">15123616</a>). Plays a role in neurite outgrowth (By similarity). During dendritic spine formation can bidirectionally induce pre- and post-synaptic differentiation of neurons by trans-synaptically binding to PTPRD (By similarity).

### **Cellular Location**

Cell membrane; Single-pass type I membrane protein Cytoplasm. Cell projection, axon. Cell projection, dendrite. Note=May localize to the cell body and growth cones of dendrite-like processes

### **Tissue Location**

Detected at low levels in heart, skeletal muscle, ovary, skin, amygdala, caudate nucleus, corpus callosum, hippocampus, substantia nigra and thalamus. Detected at very low levels in tonsil, prostate, testis, small intestine, placenta, colon and fetal liver

## **IL1RAPL1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)