

# IL1RAPL1 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2236a

## Product Information

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| <b>Application</b>       | WB, E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Primary Accession</b> | <a href="#">Q9NZN1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reactivity</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Clone Names</b>       | 2H3C12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype</b>           | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Calculated MW</b>     | 79969                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>       | 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. |
| <b>Immunogen</b>         | Purified recombinant fragment of human IL1RAPL1 (AA: 541-694) expressed in E. Coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Formulation</b>       | Purified antibody in PBS with 0.05% sodium azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Additional Information

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| <b>Gene ID</b>     | 11141                                                                                                                                                                                                                                                    |
| <b>Other Names</b> | 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 |
| <b>Dilution</b>    | WB~~1/500 - 1/2000 E~~1/10000                                                                                                                                                                                                                            |
| <b>Storage</b>     | 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.                                                                                                                 |
| <b>Precautions</b> | IL1RAPL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                                      |

## Protein Information

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**Name** IL1RAPL1

**Synonyms** OPHN4

**Function** May regulate secretion and presynaptic differentiation through inhibition of the activity of N-type voltage-gated calcium channel (PubMed:[12783849](#)). May activate the MAP kinase JNK (PubMed:[15123616](#)). 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

## References

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1. Autism Res. 2011 Aug;4(4):293-6. 2. Am J Med Genet A. 2011 Feb;155A(2):372-9.

## Images

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