

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

Application	E, WB, IF, FC
Primary Accession	O9NZN1
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: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

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](#)