10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

PLAGL1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1832a

Specification

PLAGL1 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9UM63
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**50.8kDa KDa**

Description
This gene encodes a C2H2 zinc finger protein with transactivation and DNA-binding activities. It has been shown to have anti-proliferative properties, and thus thought to function as a tumor suppressor. In addition, overexpression of this gene during fetal development is believed to underlie the rare disorder, transient neonatal diabetes mellitus (TNDM). This gene is imprinted, with preferential expression of the paternal allele in many tissues, however, biallelic expression has been noted in peripheral blood leucocytes. A recent study reports that tissue-specific imprinting results from variable utilization of monoallelic and biallelic promoters. Many transcript variants differing in the 5' UTR and encoding two different isoforms, have been found for this gene.

Immunogen
Purified recombinant fragment of human PLAGL1 (AA: 118-222) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

PLAGL1 Antibody - Additional Information

Gene ID 5325

Other Names
Zinc finger protein PLAGL1, Lost on transformation 1, LOT-1, Pleiomorphic adenoma-like protein 1, Tumor suppressor ZAC, PLAGL1, LOT1, ZAC

Dilution
WB~~1/500 - 1/2000
E~~1/10000

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
PLAGL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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PLAGL1 Antibody - Protein Information

Name PLAGL1

Synonyms LOT1, ZAC

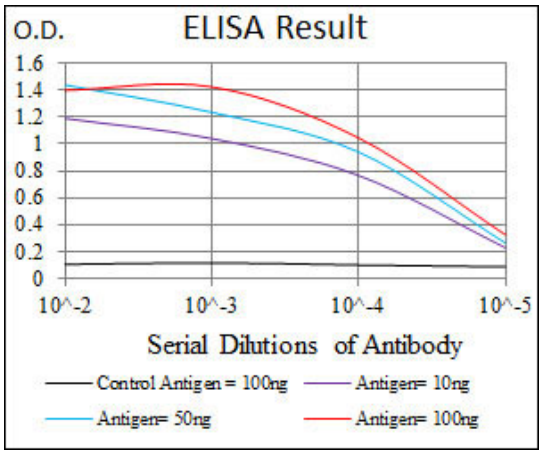
Function
Acts as a transcriptional activator (PubMed:9722527). Involved in the transcriptional regulation of type 1 receptor for pituitary adenylate cyclase-activating polypeptide.

Cellular Location
Nucleus

PLAGL1 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 Cytomety
- Cell Culture



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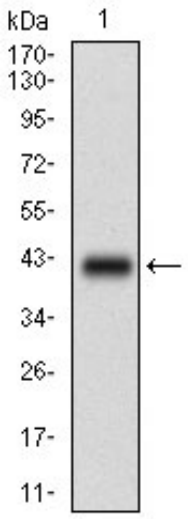

Figure 1: Western blot analysis using PLAGL1 mAb against human PLAGL1 recombinant protein. (Expected MW is 37.5 kDa)

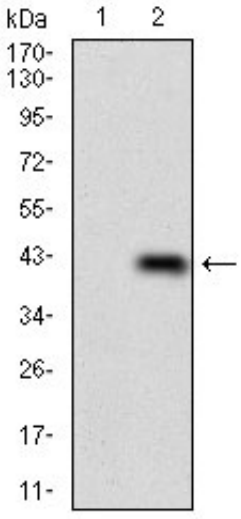

Figure 2: Western blot analysis using PLAGL1 mAb against HEK293 (1) and PLAGL1 (AA: 118-222)-hIgGFc transfected HEK293 (2) cell lysate.

PLAGL1 Antibody - Background

This gene encodes a C2H2 zinc finger protein with transactivation and DNA-binding activities. It has been shown to have anti-proliferative properties, and thus thought to function as a tumor suppressor. In addition, overexpression of this gene during fetal development is believed to underlie the rare disorder, transient neonatal diabetes mellitus (TNDM). This gene is imprinted, with preferential expression of the paternal allele in many tissues, however, biallelic expression has been noted in peripheral blood leucocytes. A recent study reports that tissue-specific imprinting results from variable utilization of monoallelic and biallelic promoters. Many transcript variants differing in the 5' UTR and encoding two different isoforms, have been found for this gene. ;

PLAGL1 Antibody - References

1. J Biomed Sci. 2012 Nov 15;19:95. 2. Exp Cell Res. 2011 Dec 10;317(20):2925-37.