

PLAGL1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1833a

Specification

PLAGL1 Antibody - Product Information

Application	WB, IHC, E
Primary Accession	Q9UM63
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
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

IHC~~1/200 - 1/1000

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.

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.

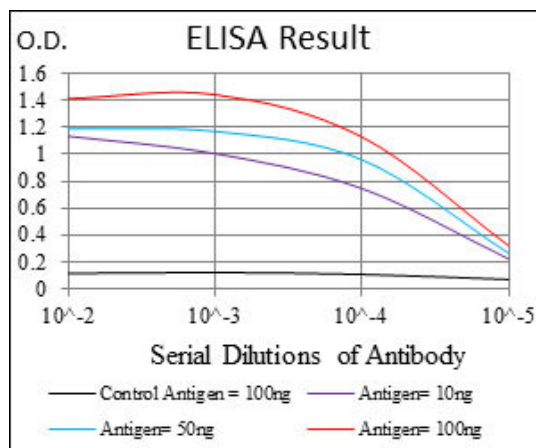
Cellular Location

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 Cytometry](#)
- [Cell Culture](#)



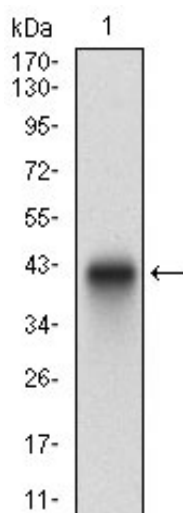


Figure 1: Western blot analysis using PLAGL1 mAb against human PLAGL1 recombinant protein. (Expected MW is 37.5 kDa)

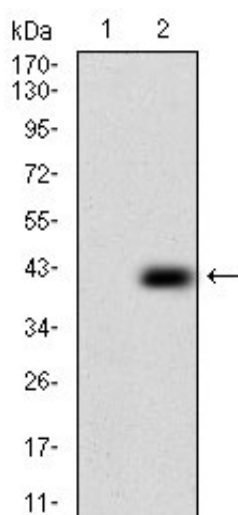


Figure 2: Western blot analysis using PLAGL1 mAb against HEK293 (1) and PLAGL1 (AA: 118-222)-hlgGfc transfected HEK293 (2) cell lysate.

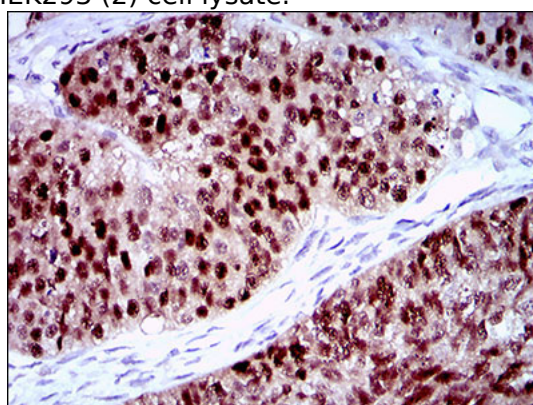


Figure 3: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using PLAGL1 mouse mAb with DAB staining.

PLAGL1 Antibody - Background

The protein encoded by this gene associates with class II major histocompatibility complex (MHC)

and is an important chaperone that regulates antigen presentation for immune response. It also serves as cell surface receptor for the cytokine macrophage migration inhibitory factor (MIF) which, when bound to the encoded protein, initiates survival pathways and cell proliferation. This protein also interacts with amyloid precursor protein (APP) and suppresses the production of amyloid beta (Abeta). Multiple alternatively spliced transcript variants encoding different isoforms have been identified. ;

PLAGL1 Antibody - References

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