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PLAGL1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1833a

Product Information

Application	WB, IHC, E
Primary Accession	Q9UM63
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8D8C5
Isotype	IgG1
Calculated MW	50819
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

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.

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

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. ;

References

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

Images

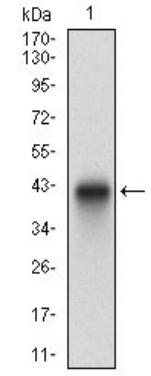


Figure 1: Western blot analysis using PLAGL1 mAb against human PLAGL1 recombinant protein. (Expected MW is 37.5 kDa)

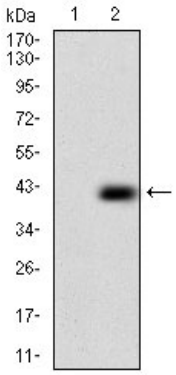
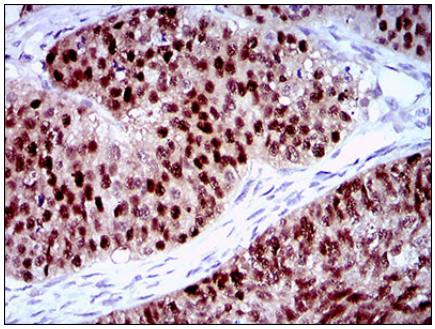


Figure 2: Western blot analysis using PLAGL1 mAb against HEK293 (1) and PLAGL1 (AA: 118-222)-hIgGFc transfected HEK293 (2) cell lysate.

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



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