

Product Information

Anti-PLAGL1

produced in rabbit, affinity isolated antibody

Product Number **L1670**

Product Description

Anti-PLAGL1 is produced in rabbit using as the immunogen a synthetic peptide corresponding to a fragment of human PLAGL1 (GenelD: 5325) conjugated to KLH. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-PLAGL1 specifically recognizes human PLAGL1. The antibody may be used in several immunochemical techniques including immunoblotting (~50 kDa) and immunofluorescence. An additional band (~85 kDa) may be observed in some preparations. Staining of the PLAGL1 band in immunoblotting is specifically inhibited with the immunizing peptide.

PLAGL1 (also known as Pleiomorphic adenoma-like protein 1, Tumor suppressor ZAC, Lost on transformation 1 or LOT-1), together with PLAGL2 and PLAG1 belongs to a novel subfamily of zinc finger transcription factors, designated the PLAG family.¹ Although the three PLAG proteins share high similarity mainly in their N-terminal zinc finger, they are functionally different. PLAG1 is a protooncogene while PLAGL1 seems to act as a tumor suppressor gene.² In response to mitogenic activation or during tumorigenesis, PLAGL1 gene expression is down-regulated in a methylation-sensitive manner.³ It was reported that PLAGL1 is an imprinted gene that regulates an imprinted gene network involved in embryonic growth control.⁴

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2–8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 1-2 µg/mL is recommended using lysates of HEK-293T cells overexpressing human PLAGL1.

Immunofluorescence: a working antibody concentration of 0.5-1 µg/mL is recommended using paraformaldehyde fixed HEK-293T cells over expressing human PLAGL1.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References

1. Kas, K. et al., *J. Biol. Chem.*, **273**, 23026-23032 (1998).
2. Hensen, K. et al., *Cancer Res.*, **62**, 1510-1517 (2002).
3. Kamikihara, T. et al., *Int. J. Cancer*, **115**, 690–700 (2005).
4. Varrault, A. et al., *Dev. Cell*, **11**, 711–722 (2006).

VS,SG,TD,KAA,PHC,MAM 03/19-1