10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PLAG1 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP11647a

Specification

PLAG1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q6DJT9

PLAG1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 5324

Other Names
Zinc finger protein PLAG1, Pleiomorphic adenoma gene 1 protein, PLAG1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PLAG1 Antibody (N-term) Blocking peptide - Protein Information

Name PLAG1

Function
Transcription factor whose activation results in up- regulation of target genes, such as IGFII, leading to uncontrolled cell proliferation: when overexpressed in cultured cells, higher proliferation rate and transformation are observed. Other target genes such as CRLF1, CRABP2, CRIP2, PIGF are strongly induced in cells with PLAG1 induction. Proto-oncogene whose ectopic expression can trigger the development of pleomorphic adenomas of the salivary gland and lipoblastomas. Overexpression is associated with up-regulation of IGFII, is frequently observed in hepatoblastoma, common primary liver tumor in childhood. Cooperates with CBFB-MYH11, a fusion gene important for myeloid leukemia.

Cellular Location
Nucleus. Note=Strong nucleolar localization when sumoylation is inhibited

Tissue Location
Expressed in fetal tissues such as lung, liver and kidney. Not detected or weak detection in normal adult tissues, but highly expressed in salivary gland with benign or malignant pleiomorphic adenomas with or without 8q12 aberrations, with preferential occurrence in benign tumors.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PLAG1 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PLAG1 Antibody (N-term) Blocking peptide - Images

PLAG1 Antibody (N-term) Blocking peptide - Background

Pleomorphic adenoma gene 1 encodes a zinc finger proteinwith 2 putative nuclear localization signals. PLAG1, which isdevelopmentally regulated, has been shown to be consistentlyrearranged in pleomorphic adenomas of the salivary glands. PLAG1 isactivated by the reciprocal chromosomal translocations involving8q12 in a subset of salivary gland pleomorphic adenomas. Threetranscript variants encoding two different isoforms have been foundfor this gene.

PLAG1 Antibody (N-term) Blocking peptide - References

Patz, M., et al. Leuk. Lymphoma 51(8):1379-1381(2010)Declercq, J., et al. Diabetes 59(8):1957-1965(2010)Okada, Y., et al. Hum. Mol. Genet. 19(11):2303-2312(2010)Kim, J.J., et al. J. Hum. Genet. 55(1):27-31(2010)Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :