



PEG3 Monoclonal Antibody

Catalog No	YP-mAb-01936
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	PEG3
Protein Name	Paternally-expressed gene 3 protein
Immunogen	The antiserum was produced against synthesized peptide derived from human PEG3. AA range:1031-1080
Specificity	PEG3 Monoclonal Antibody detects endogenous levels of PEG3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PEG3; KIAA0287; ZSCAN24; Paternally-expressed gene 3 protein; Zinc finger and SCAN domain-containing protein 24
Observed Band	181kD
Cell Pathway	Nucleus . Cytoplasm .
Tissue Specificity	Brain, glial cells, astrocytes, embryo, placenta, testis, ovary and uterus. In the placenta it is found in the layer of villous cytotrophoblast cells while in the ovary it is found in the cells of the ovarian stroma including the thecal layers around the follicles. Expression is highly repressed in glioma cell lines.
Function	function:Induces apoptosis in cooperation with SIAH1A. Acts as a mediator between TP53/p53 and BAX in a neuronal death pathway that is activated by DNA damage. Acts synergistically with TRAF2 and inhibits TNF induced apoptosis through activation of NF-kappa-B (By similarity). Possesses a tumor suppressing activity in glioma cells.,function:May be involved in transcriptional regulation.,similarity:Belongs to the krueppel C2H2-type zinc-finger protein family.,similarity:Contains 1 KRAB domain.,similarity:Contains 1 SCAN box domain.,similarity:Contains 12 C2H2-type zinc fingers.,similarity:Contains 5 C2H2-type zinc fingers.,subunit:Homodimer. Interacts with SIAH1A and SIAH2. Interacts with TRAF2.,tissue specificity:Brain, glial cells, astrocytes, embryo, placenta, testis, ovary and utreus. In the placenta it is found in the layer of villous cytotrophoblast cells while in the ovary it is fou



Background

In human, ZIM2 and PEG3 are treated as two distinct genes though they share multiple 5' exons and a common promoter and both genes are paternally expressed (PMID:15203203). Alternative splicing events connect their shared 5' exons either with the remaining 4 exons unique to ZIM2, or with the remaining 2 exons unique to PEG3. In contrast, in other mammals ZIM2 does not undergo imprinting and, in mouse, cow, and likely other mammals as well, the ZIM2 and PEG3 genes do not share exons. Human PEG3 protein belongs to the Kruppel C2H2-type zinc finger protein family. PEG3 may play a role in cell proliferation and p53-mediated apoptosis. PEG3 has also shown tumor suppressor activity and tumorigenesis in glioma and ovarian cells. Alternative splicing of this PEG3 gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2009],

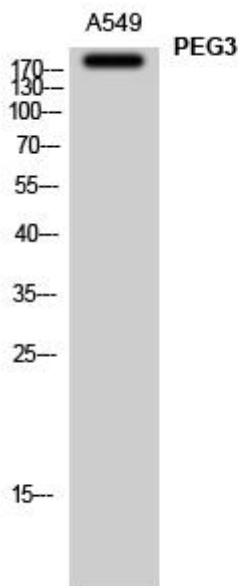
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using PEG3 Monoclonal Antibody