SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PEG3 antibody

Catalog Number: SL22782R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PEG3
Immunogen:	KLH conjugated synthetic peptide derived from human PEG3: 1011-1110/1588
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Predicted MW.:	175kDa
Subcellular Location:	The nucleus cytoplasmic
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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: Induces apoptosis in cooperation with SIAH1A. Acts as a mediator between p53/TP53 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. Possesses a tumor suppressing activity in glioma cells. **Subunit:** Homodimer. Interacts with SIAH1A and SIAH2. Interacts with TRAF2. **Subcellular Location:** 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. **Similarity:** Belongs to the krueppel C2H2-type zinc-finger protein family. Contains 12 C2H2-type zinc fingers. Contains 1 SCAN box domain. **Database links:** **Entrez Gene:** 18616 Mouse **Entrez Gene:** 66549 Mouse **Entrez Gene:** 246361 Rat **SwissProt:** O54978 Mouse **SwissProt:** Q3URU2 Mouse **SwissProt:** Q61138 Mouse **SwissProt:** Q6GQS0 Mouse **SwissProt:** Q8R5N0 Mouse **SwissProt:** Q9QX53 Mouse **Unigene:** 7952 Mouse PEG3 protein is a transcription factor. It is expressed in tissues such as pancreas, brain, placenta, ovary, and testis, and PEG3 protein is located in The nucleus. PEG3 is also an apoptosis-promoting factor and may be involved in regulating the Tumour necrosis factor (TNF) signaling pathway.

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[VALIDATION IMAGES]

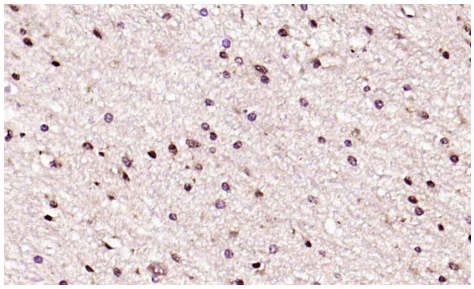


Figure 1. Paraformaldehyde-fixed, paraffin embedded (Human brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PEG3) Polyclonal Antibody, Unconjugated (SL22782R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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