Product Name: PEG10 Mouse Monoclonal Antibody
Catalog #: AMM80705
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	IHC,ELISA
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	IHC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	Isoform RF1 (37kDa); RF1/RF2 (80kDa)

Antigen Information

Gene Name	PEG10
Alternative Names	Edr; HB-1; Mar2; MEF3L; Mart2; RGAG3
Gene ID	23089.0
SwissProt ID	Q86TG7
Immunogen	Purified recombinant fragment of human PEG10 expressed in E. Coli.

Background

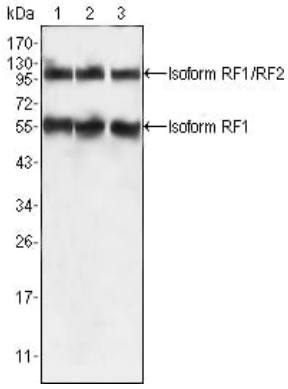
PEG10, paternally expressed 10. The PEG10 includes two overlapping reading frames of the same transcript encoding distinct isoforms. The shorter isoform has a CCHC-type zinc finger motif containing a sequence characteristic of gag proteins of most retroviruses and some retrotransposons, and it functions in part by interacting with members of the TGF-beta receptor family.

The longer isoform has the active-site DSG consensus sequence of the protease domain of pol proteins. The longer isoform is the result of -1 translational frameshifting that is also seen in some retroviruses. Expression of these two isoforms only comes from the paternal allele due to imprinting. Increased gene expression (as observed by an increase in mRNA levels) is associated with hepatocellular carcinomas.

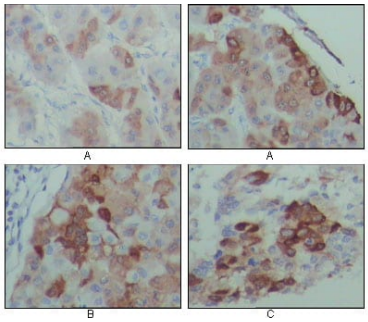
Research Area

Apoptosis

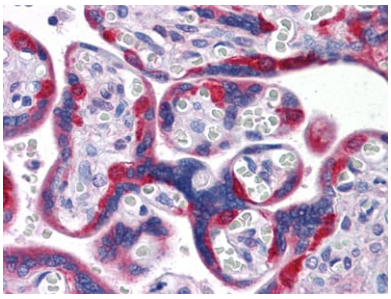
Image Data



Western blot analysis using PEG10 mouse mAb against HepG2 (1), SMMC-7721 (2) and A549 (3) cell lysate.



Immunohistochemical analysis of paraffin-embedded human hepatocarcinoma (A), breast carcinoma (B) and lung cancer tissues (C), showing cytoplasmic localization with DAB staining using PEG10 mouse mAb.



Immunohistochemical analysis of paraffin-embedded human Placenta tissues using PEG10 mouse mAb