PEG10 Mouse Monoclonal Antibody

E10-20296

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.

Catalog Number: E10-20296

Amount: 100µg/100µl

Clone Number: 4C10A7

Species: Mouse IgG1

MW; Isoform RF1 (37kDa); RF1/RF2 (80kDa)

Aliases: Edr; HB-1; Mar2; MEF3L; Mart2; RGAG3

Entrez Gene: 23089

Immunogen: Purified recombinant fragment of human PEG10 expressed in E. Coli.

Storage: Store at 4 °C for long term storage, store at -20 °C

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB ,IHC,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB:1/500 - 1/2000.IHC:1/200 - 1/1000.ELISA: Propose dilution 1/10000.

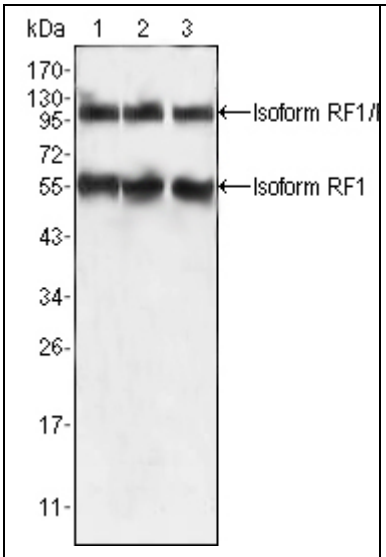

Figure 1: Western blot analysis using PEG10 mouse mAb against HepG2 (1), SMMC-7721 (2) and A549 (3) cell lysate.

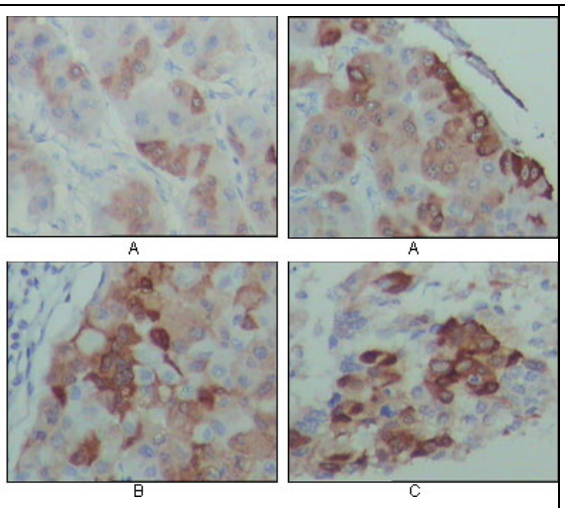

Figure 2: Immunohistochemical analysis of paraffin-embedded human hepatocarcinoma (A), breast carcinoma (B) and lung cancer tissues (C), showing cytoplasmic localization with DAB staining using PEG10 mouse mAb.

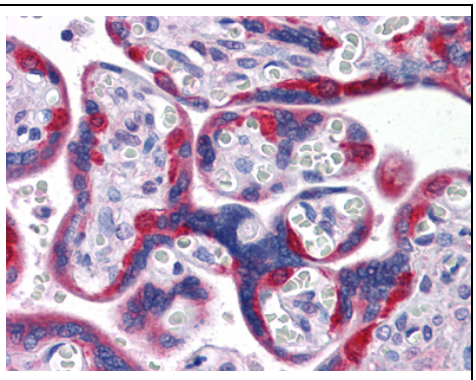

Figure 3: Immunohistochemical analysis of paraffin-embedded human Placenta tissues using PEG10 mouse mAb

For Research Use Only