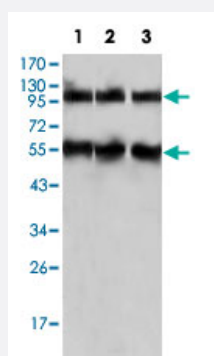# PEG10 monoclonal antibody, clone 4C10A7

Catalog #   MAB10294   Size   100 uL

Applications

Western Blot

Western blot analysis using PEG10 monoclonal antibody, clone 4C10A7 (Cat # MAB10294) against HepG2 (1), SMMC-7721 (2) and A-549 (3) cell lysate.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

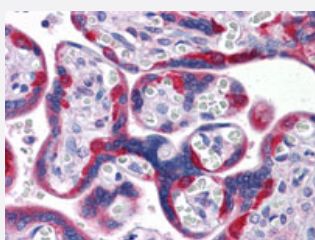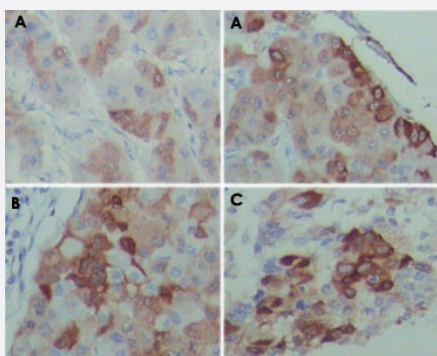Immunohistochemical analysis of paraffin-embedded human placenta tissue using PEG10 monoclonal antobody, clone 4C10A7 (Cat # MAB10294) with DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human hepatocarcinoma (A), breast carcinoma (B) and lung cancer tissue (C), showing cytoplasmic localization with DAB staining. Using PEG10 monoclonal antibody, clone 4C10A7 (Cat # MAB10294).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant PEG10.

Immunogen	Recombinant protein corresponding to human PEG10.
Host	Mouse
Theoretical MW (kDa)	37, 80
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- **Western Blot**

  Western blot analysis using PEG10 monoclonal antobody, clone 4C10A7 (Cat # MAB10294) against HepG2 (1), SMMC-7721 (2) and A-549 (3) cell lysate.

- **Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)**

  Immunohistochemical analysis of paraffin-embedded human placenta tissue using PEG10 monoclonal antobody, clone 4C10A7 (Cat # MAB10294) with DAB staining.

- **Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)**

  Immunohistochemical analysis of paraffin-embedded human hepatocarcinoma (A), breast carcinoma (B) and lung cancer tissue (C), showing cytoplasmic localization with DAB staining. Using PEG10 monoclonal antobody, clone 4C10A7 (Cat # MAB10294).

- **Enzyme-linked Immunoabsorbent Assay**

Gene Info — PEG10

Entrez GeneID	23089
Gene Name	PEG10
Gene Alias	Edr, HB-1, KIAA1051, MEF3L, Mar2, Mart2, RGAG3
Gene Description	paternally expressed 10
Omim ID	609810
Gene Ontology	Hyperlink
Gene Summary	This gene 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. [provided by RefSeq
Other Designations	MEF3 like 1|embryonal carcinoma differentiation regulated|retrotransposon gag domain containing 3

Publication Reference

- miR-122-mediated translational repression of PEG10 and its suppression in human hepatocellular carcinoma.

  Shyu YC, Lee TL, Lu MJ, Chen JR, Chien RN, Chen HY, Lin JF, Tsou AP, Chen YH, Hsieh CW, Huang TS.

  Journal of Translational Medicine 2016 Jul; 14(1):200.

  Application: WB-Ti, WB-Tr, Human, Mouse, 293T, HepG2 cells, Liver, Hepatocellular carcinoma

- Expression of PEG10 Is Associated with Poor Survival and Tumor Recurrence in Hepatocellular Carcinoma.

  Bang H, Ha SY, Hwang SH, Park CK.

  Cancer Research and Treatment 2015 Oct; 47(4):844.

  Application: IHC-P, Human, Normal liver, Hepatocellular carcinomas