Anti-PEG10 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015488

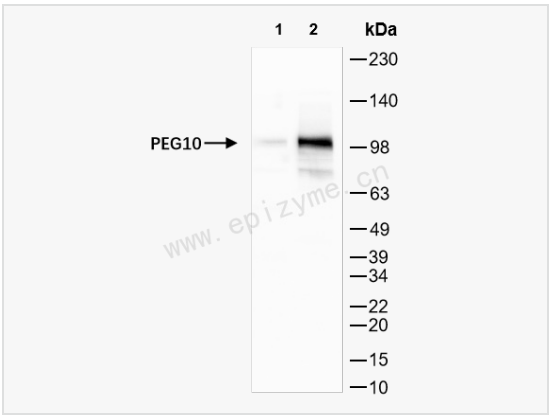
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	95G87E68
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human PEG10
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PEG10 Rabbit mAb [95G87E68] is for research use only and not for use in diagnostic or therapeutic procedures.

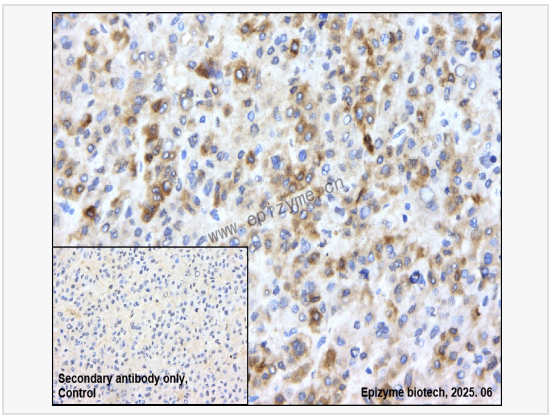
Protein Information

Synonyms	AA407948; Edr; Embryonal carcinoma differentiation regulated; Embryonal carcinoma differentiation-regulated protein; HB 1; HB1; KIAA1051; Mammalian retrotransposon-derived protein 2; Mar2; Mart2; MEF3 like 1; MEF3-like protein 1; MEF3L; MEF3L1; MyEF 3; Myelin expression factor 3-like protein 1; Paternally expressed 10; Paternally expressed gene 10 ORF1; Paternally expressed gene 10 protein; Peg10; PEG10 protein; PEG10_HUMAN; Putative uncharacterized protein PEG10; Retrotransposon gag domain containing 3; Retrotransposon gag domain-containing protein 3; Retrotransposon-derived gag-like polyprotein; Retrotransposon-derived protein PEG10; RGAG3; Ty3/Gypsy-like protein.
Calculated MW	Calculated MW: 80 kDa; Observed MW: 100 kDa
Uniprot ID	Q86TG7
Gene ID	23089
Background	This is a paternally expressed imprinted gene that is thought to have been derived from the Ty3/Gypsy family of retrotransposons. It contains two overlapping open reading frames, RF1 and RF2, and expresses two proteins: a shorter, gag-like protein (with a CCHC-type zinc finger domain) from RF1; and a longer, gag/pol-like fusion protein (with an additional aspartic protease motif) from RF1/RF2 by -1 translational frameshifting (-1 FS). While -1 FS has been observed in RNA viruses and transposons in both prokaryotes and eukaryotes, this gene represents the first example of -1 FS in a eukaryotic cellular gene. This gene is highly conserved across mammalian species and retains the heptanucleotide (GGGAAAC) and pseudoknot elements required for -1 FS. It is expressed in adult and embryonic tissues (most notably in placenta) and reported to have a role in cell proliferation, differentiation and apoptosis. Overexpression of this gene has been associated with several malignancies, such as hepatocellular carcinoma and B-cell lymphocytic leukemia. Knockout mice lacking this gene showed early

Validation Images



Western Blot - Anti-PEG10 Rabbit mAb [95G87E68]
All lanes: R015488 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 80 kDa
Observed band size: 100 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-PEG10 Rabbit mAb [95G87E68]
Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015488 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.