

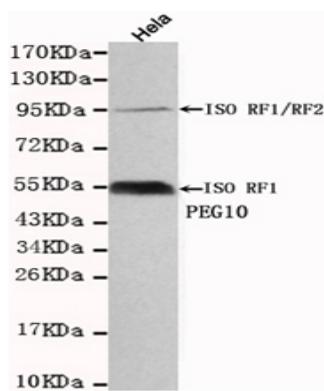


PEG10 Antibody

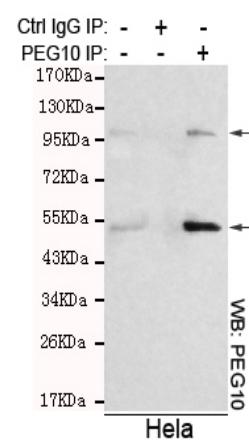
E2200804

For Research Use Only

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|------------------------------|---|
| Catalog Number: | E2200804 |
| Size: | 100ug |
| Host: | Mouse |
| Formulation: | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol |
| Sensitivity: | This antibody detects endogenous levels of PEG10 and does not cross-react with related proteins. |
| Entrez summary: | This is a paternally expressed imprinted gene that encodes transcripts containing two overlapping open reading frames (ORFs), RF1 and RF1/RF2, as well as retroviral-like slippage and pseudoknot elements, which can induce a -1 nucleotide frame-shift. ORF1 encodes a shorter isoform with a CCHC-type zinc finger motif containing a sequence characteristic of gag proteins of most retroviruses and some retrotransposons. The longer isoform is the result of -1 translational frame-shifting leading to translation of a gag/pol-like protein combining RF1 and RF2. It contains the active-site consensus sequence of the protease domain of pol proteins. Additional isoforms resulting from alternatively spliced transcript variants, as well as from use of upstream non-AUG (CUG) start codon, have been reported for this gene. Increased expression of this gene is associated with hepatocellular carcinomas. [provided by RefSeq, May 2010] |
| UniPort summary | revents apoptosis in hepatocellular carcinoma (HCC) cells through interaction with SIAH1, a mediator of apoptosis. May also have a role in cell growth promotion and hepatoma formation. Inhibits the TGF-beta signaling by interacting with the TGF-beta receptor ALK1. When overexpressed, induces the formation of cellular extension, such as filopodia in association with ALK1. Involved at the immediate early stage of adipocyte differentiation (By similarity). May bind to the 5'-GCCTGTCTTT-3' DNA sequence of the MB1 domain in the myelin basic protein (MBP) promoter |
| Immunogen: | Purified recombinant human PEG10 protein fragments expressed in E.coli. |
| Antibody Type: | Monoclonal antibody |
| Isotype: | IgG1 |
| Purified method: | Affinity purified |
| Subcellular location: | Nucleus. Cytoplasm |
| Reactivity: | H |
| Applications: | WB,IP |
| Molecular Weight: | 55kDa |
| UniProt number: | Q86TG7 |
| GeneBank ID: | NM_001040152 |
| Gene symbol: | EDR; HB-1; Mar2; MEF3L; Mart2; RGAG3 |
| Alternate names: | Retrotransposon-derived protein PEG10;Embryonal carcinoma differentiation-regulated protein;Mammalian retrotransposon-derived protein 2;Myelin expression factor 3-like protein 1;Paternally expressed gene 10 protein;Retrotransposon gag domain-containing protein 3;Retrotransposon-derived gag-like polyprotein;Ty3/Gypsy-like protein |



Western blot detection of PEG10 in HeLa cell lysates using PEG10 antibody (1:1000 diluted). Predicted band size: 55 kDa. Observed band size: 55 kDa, 95 kDa.



Immunoprecipitation analysis of HeLa cell lysates using PEG10 antibody.