

MEST Rabbit pAb

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Catalog # AP57256

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q5EB52
Predicted	Rat, Pig, Dog, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38830
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MEST
Epitope Specificity	101-200/335
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the alpha/beta hydrolase superfamily. It is imprinted, exhibiting preferential expression from the paternal allele in fetal tissues, and isoform-specific imprinting in lymphocytes. The loss of imprinting of this gene has been linked to certain types of cancer and may be due to promotor switching. The encoded protein may play a role in development. Alternatively spliced transcript variants encoding multiple isoforms have been identified for this gene. Pseudogenes of this gene are located on the short arm of chromosomes 3 and 4, and the long arm of chromosomes 6 and 15. [provided by RefSeq, Dec 2011]

Additional Information

Gene ID	4232
Other Names	Mesoderm-specific transcript homolog protein, 3.-.-., Paternally-expressed gene 1 protein, MEST, PEG1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MEST
Synonyms	PEG1
Function	Plays an important role in enabling neurons to transition from bipolar to multipolar shapes, a process essential for their correct migration toward the cortical plate during brain development. This function is likely achieved through the regulation of N-cadherin- dependent cell adhesion and the modulation of Akt and canonical Wnt signaling pathways. Essential for the development and maintenance of meso-diencephalic dopaminergic (mdDA) neurons during development. Negatively regulates the canonical Wnt signaling pathway during adipogenic differentiation by reducing the glycosylation, maturation, and cell membrane localization of the Wnt coreceptor LRP6.
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q07646}; Multi-pass membrane protein
Tissue Location	Highly expressed in hydatidiform moles, but barely expressed in dermoid cysts. Biallelic expression is detected in blood lymphocytes. Seems to be imprinted in an isoform-specific manner rather than in a tissue-specific manner in lymphocytes. Isoform 1 is expressed only from the paternal allele. Isoform 2 is expressed from both the paternal allele and the maternal allele.

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