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CRIPTO Mouse mAb

Catalog # AP100138

Product Information

Application	WB, E
Primary Accession	P13385
Other Accession	P13385
Predicted	Rat, Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	21169
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TDGF1
Epitope Specificity	101-188/188
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 EGF-like domain.
SUBUNIT	Interacts with the activin type-1 receptor ACVR1B.
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 an epidermal growth factor-related protein that contains a cripto, FRL-1, and cryptic domain. The encoded protein is an extracellular, membrane-bound signaling protein that plays an essential role in embryonic development and tumor growth. Mutations in this gene are associated with forebrain defects. Pseudogenes of this gene are found on chromosomes 2, 3, 6, 8, 19 and X. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010].

Additional Information

Gene ID	6997
Other Names	TDGF1; CR; CR-1; CRGF; CR1; TDGF1_HUMAN; CRIPTO; Cripto, EGF-CFC family member; Cripto-1 growth factor (CRGF); Epidermal growth factor-like cripto protein CR1; Teratocarcinoma-derived growth factor 1; CRIPTO-1; TDGF1_MOUSE; Cripto growth factor; Epidermal growth factor-like Cripto protein;
Dilution	WB=1:500-2000,ICC/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	CRIPTO {ECO:0000303|PubMed:2792079, ECO:0000312|HGNC:HGNC:11701}
Function	GPI-anchored cell membrane protein involved in Nodal signaling. Cell-associated CRIPTO acts as a Nodal coreceptor in cis. Shedding of CRIPTO by TMEM8A modulates Nodal signaling by allowing soluble CRIPTO to act as a Nodal coreceptor on other cells (PubMed:27881714). Could play a role in the determination of the epiblastic cells that subsequently give rise to the mesoderm (PubMed:11909953).
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Note=Released from the cell membrane by GPI cleavage.
Tissue Location	Preferentially expressed in gastric and colorectal carcinomas than in their normal counterparts. Expressed in breast and lung.

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