

TDGF1 Antibody

Catalog # ASC11575

Product Information

ApplicationWB, IF, EPrimary AccessionP13385

Other Accession NP_003203, 4507425
Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 21169
Concentration (mg/ml) 1 mg/mL
Conjugate Unconjugated

Application Notes TDGF1 antibody can be used for detection of TDGF1 by Western blot at 1 - 2

□g/mL. For immunofluorescence start at 20 □g/mL.

Additional Information

Gene ID 6997

Other Names Teratocarcinoma-derived growth factor 1, Cripto-1 growth factor, CRGF,

Epidermal growth factor-like cripto protein CR1, TDGF1, CRIPTO

Target/Specificity TDGF1;

Reconstitution & Storage TDGF1 antibody can be stored at 4°C for three months and -20°C, stable for

up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high

temperatures.

Precautions TDGF1 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

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.

Preferentially expressed in gastric and colorectal carcinomas than in their normal counterparts. Expressed in breast and lung.

Background

TDGF1 Antibody: Teratocarcinoma-derived growth factor 1 (TDGF1 or Cripto) is a member of the epidermal growth factor-cripto FRL1 cryptic protein family and is involved in the activation of several different signaling pathways during embryonic development and cellular transformation. It is first expressed in the forming mesoderm during gastrulation but later in development the expression is restricted to the truncus arteriosus of the developing heart. This suggests that TDGF1 mediates the progression of epiblastic cells that give rise to the mesoderm. TDGF1 overexpression is characteristic of human gastric and colorectal carcinomas.

References

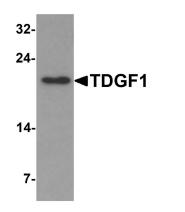
Brandt R, Normanno N, Gullick WJ, et al. Identification and biological characterization of an epidermal growth factor-related protein: Cripto-1. J. Biol. Chem. 1994; 269:17320-8.

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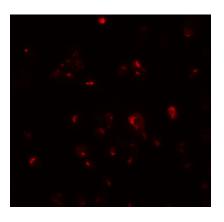
Parisi S, D'Andrea D, Lago CT, et al. Nodal-dependent Cripto signaling promotes cardiomyogenesis and redirects the neural fate of embryonic stem cells. J. Cell Biol. 2003; 163:303-14.

Xing PX, Hu XF, Pietersz GA, et al. Cripto: a novel target for antibody-based cancer immunotherapy. Cancer Res. 2004; 64:4018-23.

Images



Western blot analysis of TDGF1 in 293 cell lysate with TDGF1 antibody at 1 μ g/mL.



Immunofluorescence of TDGF1 in 293 cells with TDGF1 antibody at 20 μ g/mL.

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