

TDGF1 Antibody

Catalog # ASC11575

Product Information

Application	WB, IF, E
Primary Accession	P13385
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 μ g/mL. For immunofluorescence start at 20 μ 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.

Tissue Location

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

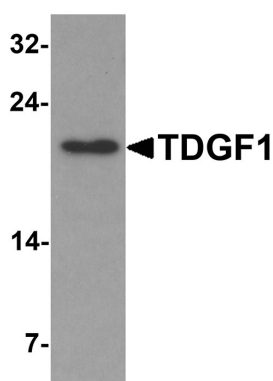
Brandt R, Normanno N, Gullick WJ, et al. Identification and biological characterization of an epidermal growth factor-related protein: Cripto-1. *J. Biol. Chem.* 1994; 269:17320-8.

Dono R, Scalera L, Pacifico F, et al. The murine Cripto gene: expression during mesoderm induction and early heart morphogenesis. *Development* 1993; 118:1157-68.

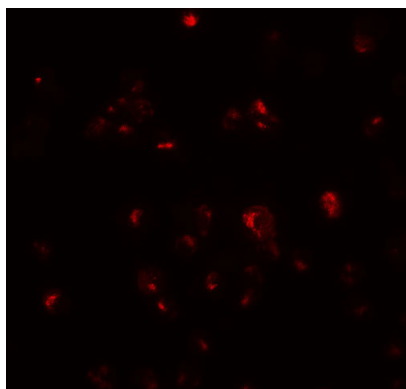
Parisi S, D'Andrea D, Lago CT, et al. Nodal-dependent Cripto signaling promotes cardiomyogenesis and redirects the neural fate of embryonic stem cells. *J. Cell Biol.* 2003; 163:303-14.

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 µg/mL.



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.