

Rabbit TDGF1 Polyclonal Antibody | anti-TDGF1 antibody

TDGF1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325991	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TDGF1; Polyclonal Antibody; TDGF1 Antibody; CR; CRGF; Cripto 1; Cripto 1 growth factor; cripto; Cripto-1 growth factor; Cripto1 growth factor; Epidermal growth factor like cripto protein CR1; Epidermal growth factor-like cripto protein CR1; TDGF 1; TDGF1_HUMAN; Teratocarcinoma derived growth factor 1; Teratocarcinoma-derived growth factor 1; anti-TDGF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TDGF1 antibody detects endogenous levels of total TDGF1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	172
Applicable Applications for anti-TDGF1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TDGF1
Subcellular Location	Cell Membrane
Tissue Specificity	Preferentially expressed in gastric and colorectal carcinomas than in their normal counterparts. Expressed in breast and lung.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of NCCIT lysate using TDGF1 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA325991 at 1/100 staining Human lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-TDGF1 antibody

Description: Cripto, also known as teratocarcinoma derived growth factor 1 (TDGF-1), belongs to the EGF-CFC family of proteins. Members of this family are characterized by an N-terminal signal peptide, a conserved cysteine rich domain (CFC motif), and a short hydrophobic carboxy-terminal tail that contains GPI cleavage and attachment sites. The GPI moiety anchors Cripto and family members to the extracellular plasma membrane (1). An O-linked fucosylation site within the EGF-like motif is required for Cripto and related family members to perform their function as co-receptors for TGF-beta-related ligands such as Nodal and Vg1/GDF1 (2, 3). Soluble forms of Cripto can be produced-these contain intact EGF and CFC domains, and are thought to have paracrine activities, as opposed to the autocrine activity of Cripto functioning as a coreceptor (4). Understanding of this paracrine activity is not complete, but it is proposed that Cripto may act as co-ligand for Nodal (3).Cripto is an important modulator of embryogenesis and oncogenesis (4). It is highly expressed in early embryos, and in embryonic stem (ES) cells where it is involved in cardiomyocytic differentiation and acts as a negative regulator of neurogenesis (5-7). Transient activation of Cripto is essential for the capacity of stem cell self-renewal and pluripotency in ES cells, and in some adult derived stem cells (8). Signaling through Cripto can also stimulate other activities that promote tumorigenesis such as stimulation of proliferation, cell motility, invasion, angiogenesis and epithelial-mesenchymal transition (EMT) (9-11). Cripto is highly expressed in a broad range of tumors, where it acts as a potent oncogene. Function: GPI-anchored cell membrane protein involved in Nodal signaling. Cell-associated TDGF1 acts as a Nodal coreceptor in cis. Shedding of TDGF1 by TMEM8A modulates Nodal signaling by allowing soluble TDGF1 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). Subunit Structure: Interacts with the activin type-1 receptor ACVR1B. Post-translational Modifications: The GPI-anchor is attached to the protein in the endoplasmic reticulum and serves to target the protein to the cell surface. There, it is processed by GPI processing phospholipase A2 (TMEM8A), removing an acyl-chain at the sn-2 position of GPI and releasing TDGF1 as a lysophosphatidylinositol-bearing form, which is further cleaved by phospholipase D (GPLD1) into a soluble form. Similarity: Belongs to the EGF-CFC (Cripto-1/FRL1/Cryptic) family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	292494883
NCBI GeneID	6997
NCBI Accession #	NP_001167607.1
NCBI GenBank Nucleotide #	NM_001174136.1
UniProt Accession #	P13385; Q8TCC1
Molecular Weight	Observed: 21 kDa Predicted: 22 kDa
NCBI Official Full Name	teratocarcinoma-derived growth factor 1 isoform 2
NCBI Official Synonym Full Names	teratocarcinoma-derived growth factor 1
NCBI Official Symbol	TDGF1
NCBI Official Synonym Symbols	CR; CR-1; CRGF; CRIPTO
NCBI Protein Information	teratocarcinoma-derived growth factor 1

UniProt Protein Name	Teratocarcinoma-derived growth factor 1
UniProt Gene Name	TDGF1
UniProt Synonym Gene Names	CRIPTO; CRGF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tdgf1-antibody-immunohistochemistry-western-blot-elisa/325991>