

## Product datasheet for **TA336263**

### Cripto1 (TDGF1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, WB
Recommended Dilution:	WB: 2 ug/ml, FC: 1:100, IF: 1:1000
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to an N-terminal portion of mouse Cripto1 (between residues 1-50). [UniProt# P51865]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	18 kDa
Gene Name:	teratocarcinoma-derived growth factor 1
Database Link:	<a href="#">NP_003203</a> <a href="#">Entrez Gene 21667 Mouse</a> <a href="#">Entrez Gene 6997 Human</a> <a href="#">P13385</a>



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**Background:**

Cripto-1 (teratocarcinoma-derived growth factor-1) is the original member of EGF-cripto-1-FRL-1-cryptic (CFC) family of vertebrate signaling molecules which is essential for embryonic development and it implicates in carcinogenesis also. Cripto1 functions as a co-receptor for NODAL (TGF-beta member) and is essential for mesoderm as well as endoderm formation and anterior-posterior and left-right axis establishment. After executing key functions during embryonic development, it dramatically disappears in adult tissues (except stem cells). Cripto-1 modulate signaling of TGF-beta family members (NODAL, GDF-1/-3, Activin, TGF-beta1 etc), and activate c-src/MAPK/AKT pathway in a Glypican-1/GRP78-dependent manner, and cross-talks with erbB4, Wnt/beta-catenin, NOTCH, Caveolin-1, and Apelin/putative receptor protein related to angiotensin-type I receptor pathways. During embryonic development, Cripto-1 together with Nodal controls cell migration and EMT, whereas, postnatally, it regulates the branching morphogenesis of mammary gland. Moreover, in adult life it gets re-expressed in several type of tumors wherein it promotes cell proliferation, migration, invasion, EMT, and angiogenesis.

**Synonyms:**

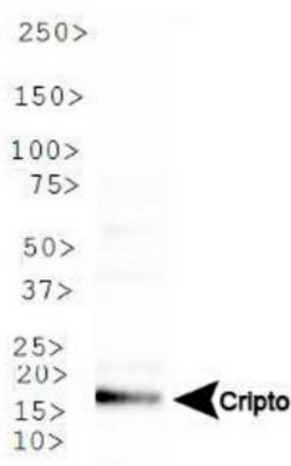
CR; CRGF; CRIPTO

**Note:**

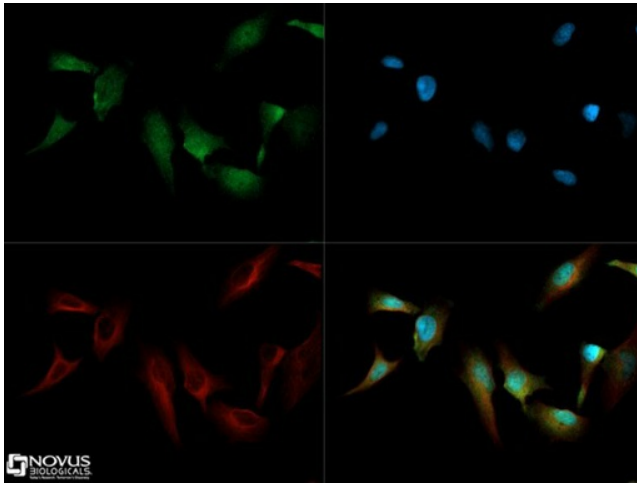
This Cripto1 antibody is useful in Immunocytochemistry/Immunofluorescence, Flow Cytometry and Western Blot. In Western blot a band is seen at ~18 kDa representing the core form of Cripto1, and at ~36 kDa representing the glycosylated/ post-translationally modified form.

**Protein Families:**

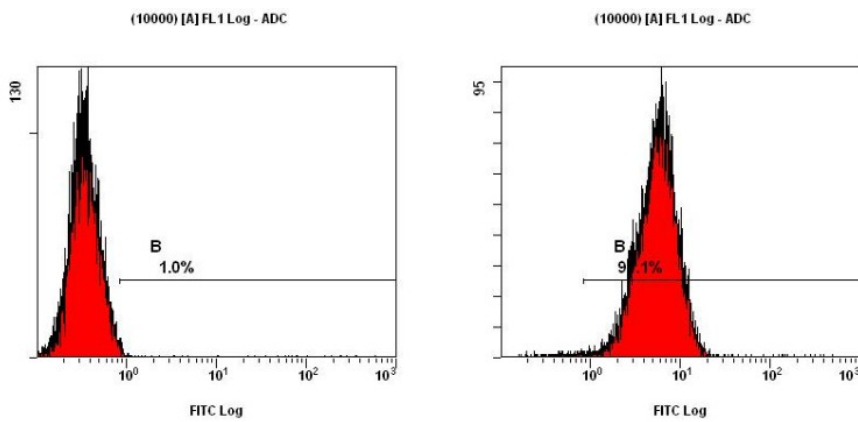
Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transmembrane

**Product images:**

Western Blot: Cripto1 Antibody TA336263 - Analysis of Cripto in Dicer knockout mouse embryonic stem cell lysate.



Immunocytochemistry/Immunofluorescence: Cripto1 Antibody TA336263 - Cripto1 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Flow Cytometry: Cripto1 Antibody TA336263 - Staining of NTERA-2 cells using TA336263 at a 1:50 dilution detected using Dylight-488 conjugated goat anti-rabbit IgG secondary antibody.