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TDGF1, human recombinant protein

CRIPTO1, CRIPTO-1, CRGF, Teratocarcinoma-Derived Growth Factor 1, TDGF1, CR1.
Catalog # PBV10231r

Specification

TDGF1, human recombinant protein - Product info

Primary Accession	P13385
Calculated MW	**17.4 kDa KDa**

TDGF1, human recombinant protein - Additional Info

Gene ID	**6997**
Gene Symbol	**TDGF1**

Other Names
CRIPTO1, CRIPTO-1, CRGF, Teratocarcinoma-Derived Growth Factor 1, TDGF1, CR1.

Gene Source	**Human**
Source	**Human cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**HPLC;**
Recombinant	**Yes**
Sequence	**A DNA sequence encoding the human TDGF1 (AAH22393.1) (Met 1 - Thr 172) with a C-terminal polyhistidine tag was expressed.**

Target/Specificity
TDGF1

Application Notes
Reconstitute in sterile PBS

Format
Lyophilized protein

Storage
-70°C; Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.

TDGF1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

- Flow Cytomety
- Cell Culture

TDGF1, human recombinant protein - Images

TDGF1, human recombinant protein - Background

Teratocarcinoma-derived growth factor 1, also known as epidermal growth factor-like cripto protein CR1, CRGF, and TDGF1, is a cell membrane which contains one EGF-like domain. In humans, TDGF1 is highly expressed in germ cell tumors and in colon and mammary carcinomas. TDGF1 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. TDGF1 regulates the activation of several signaling pathways and controls cellular transformation in embryonic status. Patients with high TDGF1 expression were statistically susceptible to a recurrence of the disease, and showed poorer disease-free survival than those with low expression. TDGF1 is a predictive marker for metachronous metastasis in colorectal cancer (CRC) patients. It is preferentially expressed in gastric and colorectal carcinomas than in their normal counterparts. TDGF1 plays a role in the determination of the epiblastic cells that subsequently give rise to the mesoderm.