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Datasheet for ABIN7534250
Cripto-1 Protein (His tag)

Overview

Quantity:	50 µg
Target:	Cripto-1 (TDGF1.3)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cripto-1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Cripto-1/TDGF1 Protein
Sequence:	LGHQEFARPS RGYLAFRDDS IWPQEPAIR PRSSQRVPPM GIQHSKELNR TCCLNGGTCM LGSFCACPPS FYGRNCEHDV RKENCGSVPH DTWLPKKCSL CKCWHGQLRC FPQAFLPGCD GLVMDEHLVA SRTPELPPSA RT
Specificity:	Leu31-Thr172
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human Cripto-1 at 2 µg/mL (100 µL/well) can bind Recombinant Human ALK4 with a linear range of 0.15-151 ng/mL.

Target Details

Target:	Cripto-1 (TDGF1.3)
Alternative Name:	Cripto-1/TDGF1 (TDGF1.3 Products)
Background:	<p>Description: Cripto/TDGF1 is a member of the epidermal growth factor (EGF)- Cripto, Frl-1, and Cryptic (CFC) family. TDGF1 is an extracellular, membrane-bound signaling protein that plays an essential role in embryonic development and tumor growth. It is overexpressed in many types of cancers and acts as a growth factor for tumors. Cripto mutants display defects in mesoderm induction and heart morphogenesis, similar to phenotypes seen in Nodal mutants. Cripto can also activate mitogen-activated protein kinase (MAPK) and Akt pathways independently of Nodal by directly binding to a membrane-associated heparan sulfate proteoglycan, glypican-1.</p> <p>Name: TDGF1,CR,CRGF,CRIPTO</p>
Gene ID:	6997
UniProt:	P13385

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>