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Datasheet for ABIN233828 anti-TDGF1 antibody

1 Image

5 Publications



Overview

Quantity:	100 µg
Target:	TDGF1
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TDGF1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Purpose:	Cripto-1 TDGF1 Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal sequence of human Cripto-1 protein. Immunogen Type: Conjugated Peptide
Isotype:	lgG
Cross-Reactivity (Details):	This antibody is specific for human Cripto-1 protein.
Characteristics:	Synonyms: rabbit anti-Cripto 1 antibody, rabbit anti-Cripto-1 antibody, Cripto 1 growth factor antibody, Epidermal growth factor like cripto protein CR1 antibody, TDGF 1 antibody, Teratocarcinoma-derived growth factor 1, CRGF, TDGF1
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography.

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Product Details

Sterility:

Sterile filtered

Target Details

Target:	TDGF1
Alternative Name:	TDGF1 (TDGF1 Products)
Background:	Background: This antibody is designed, produced, and validated as part of a collaboration with the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Human Cripto-1 (CR-1), also known as Teratocarcinoma-derived growth factor 1 (TDGF1), is a member of the epidermal growth factor (EGF)-GFC family and has been implicated in both embryogenesis and carcinogenesis. During early vertebrate development, CR-1 functions as a co-receptor for Nodal, a transforming growth factor b (TGFb) family member, and is essential for mesoderm and endoderm formation and anterior-posterior and left-right axis establishment. In adult tissues, CR-1 is expressed at a low level in all stages of mammary gland development, and expression increases during pregnancy and lactation. Over-expression of CR-1 in mouse mammary epithelial cells leads to their transformation in vitro, and when injected in mammary glands, CR-1 produces ductal hyperplasias.
Gene ID:	6997, 4507425
UniProt:	P13385
Pathways:	EGFR Signaling Pathway

Application Details

Application Notes:	Immunohistochemistry Dilution: User Optimized
	Application Note: This affinity purified antibody has been tested for use in ELISA and western
	blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band
	approximately 21 kDa in size corresponding to Cripto-1 by western blotting in the appropriate
	cell lysate or extract. Cripto-1 is reported as a 188 amino acid protein with a molecular weight
	of 21.1 kDa.
	Western Blot Dilution: 1:1000
	ELISA Dilution: 1:105,000
	Other: User Optimized
Restrictions:	For Research Use only

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Format:	Liquid
Concentration:	0.66 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months
Publications	
Product cited in:	Ligtenberg, Witt, Galvez-Cancino, Sette, Lundqvist, Lladser, Kiessling: "Cripto-1 vaccination elicits protective immunity against metastatic melanoma." in: Oncoimmunology , Vol. 5, Issue 5, pp. e1128613, (2016) (PubMed).
	Strizzi, Margaryan, Gerami, Haghighat, Harms, Madonna, Botti, Ascierto, Hendrix: "Translational significance of Nodal, Cripto-1 and Notch4 in adult nevi." in: Oncology letters , Vol. 12, Issue 2, pp. 1349-1354, (2016) (PubMed).
	Tysnes, Satran, Mork, Margaryan, Eide, Petersen, Strizzi, Hendrix: "Age-Dependent Association between Protein Expression of the Embryonic Stem Cell Marker Cripto-1 and Survival of Glioblastoma Patients." in: Translational oncology , Vol. 6, Issue 6, pp. 732-41, (2014) (PubMed).
	Strizzi, Margaryan, Gilgur, Hardy, Normanno, Salomon, Hendrix: "The significance of a Cripto-1 positive subpopulation of human melanoma cells exhibiting stem cell-like characteristics." in: Cell cycle (Georgetown, Tex.) , Vol. 12, Issue 9, pp. 1450-6, (2013) (PubMed).

Malchenko, Galat, Seftor, Vanin, Costa, Seftor, Soares, Hendrix: "Cancer hallmarks in induced pluripotent cells: new insights." in: **Journal of cellular physiology**, Vol. 225, Issue 2, pp. 390-3, (2010) (PubMed).

Images



Western Blotting

Image 1. Western blot using affinity purified anti-Cripto-1 antibody shows detection of endogenous and transfected Cripto-1 from mouse and human sources. The Cripto-1 band appears above the 17.8 kDa marker. Endogenous detection is shown using mouse P19 embryonal carcinoma cells and human NCCIT testicular embryonal carcinoma cells. EpH4 CR-1 is a mouse mammary epithelial cell line stably expressing mouse Cripto-1. NTERA cells are human embryonal carcinoma cells that, when overgrown, differentiate and lose Cripto-1 expression. COS7 cells transfected with human Cripto-1 expression vector were used as a positive control and EpH4 WT cells were used as a negative control. A non-specific band at 45kDa may be present in some preparations. The primary antibody was used at a 1:500 dilution. Personal communication, C. Bianco, NCI, Bethesda, MD

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