

Cripto Antibody



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 18, 20	Source/Isotype: Rabbit	UniProt ID: #P13385	Entrez-Gene Id: 6997
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Cripto Antibody detects endogenous levels of total human Cripto protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Ser51 of human Cripto. Antibodies are purified by peptide affinity chromatography.				
Background		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 <i>O</i> -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-β-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.				
Background References		 Minchiotti, G. et al. (2000) Mech Dev 90, 133-42. Schiffer, S.G. et al. (2001) J Biol Chem 276, 37769-78. Yan, Y.T. et al. (2002) Mol Cell Biol 22, 4439-49. Strizzi, L. et al. (2005) Oncogene 24, 5731-41. Xu, C. et al. (1998) Dev Biol 196, 237-47. Parisi, S. et al. (2003) J Cell Biol 163, 303-14. Minchiotti, G. (2005) Oncogene 24, 5668-75. Beachy, P.A. et al. (2004) Nature 432, 324-31. Wechselberger, C. et al. (2001) Exp Cell Res 266, 95-105. Bianco, C. et al. (2005) J Natl Cancer Inst 97, 132-41. Strizzi, L. et al. (2004) J Cell Physiol 201, 266-76. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human

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