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Product datasheet for TA319414

ECT2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:10,000 - 1:40,000, WB: 1:1,000 - 1:4,000
Reactivity:	Human, Mouse, Rat, Zebrafish, Chimpanzee, Chicken, Dog
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 785-795 of human ECT2 protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	epithelial cell transforming 2
Database Link:	NP_060568 Entrez Gene 13605 MouseEntrez Gene 361921 RatEntrez Gene 488172 DogEntrez Gene 1894 Human Q9H8V3
Synonyms:	ARHGEF31

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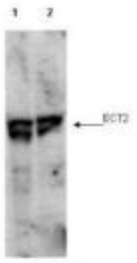
Note: This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. ECT2, also known as epithelial cell transforming sequence 2 oncogene, was originally isolated as a transforming gene from epithelial cells. ECT2 catalyzes guanine nucleotide exchange on the small GTPases, RhoA, Rac1, and Cdc42. ECT2 may be phos-phorylated during G_2 and M phases, and phosphorylation may be required for its exchange activity. Unlike other known guanine nucleotide exchange factors for Rho GTPases, ECT2 exhibits nuclear localization in interphase, spreads throughout the cytoplasm in prometaphase, and is condensed in the midbody during cytokinesis. Expression of dominant-negative ECT2 or microinjection of affinity-purified anti-ECT2 antibody into interphase cells strongly inhibits cytokinesis. These results suggest that ECT2 is an important link between the cell cycle machinery and Rho signaling pathways involved in the regulation of cell division. Phosphorylation at T790 or S375 significantly affects the catalytic activity of ECT2.

Protein Families: Druggable Genome

Product images:



WB using Anti-ECT2 pT790 antibody shows detection of endogenous phosphorylated ECT2 (arrowhead) present in cell lysates from interphase (lane 1) and mitotic (lane 2) HeLa cells. Despite specific staining of interphase cells, this reagent is believed to be phospho specific based on ELISA results using both phosphorylated and non-phosphorylated immunizing peptide. After SDS-PAGE and transfer, the membrane was probed with the primary antibody diluted to 1:1,000.