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Datasheet for ABIN129688 anti-ECT2 antibody (pThr790)

Image



Overview

1

Quantity:	100 µg
Target:	ECT2
Binding Specificity:	pThr790
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	ECT2 phospho T790 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 region of human ECT2 protein. Immunogen Type: Conjugated Peptide
lsotype:	lgG
Cross-Reactivity (Details):	This affinity-purified antibody is directed against the phosphorylated form of human ECT2 protein at the pT790 residue.
Characteristics:	Synonyms: rabbit anti-ECT2 pT790 Antibody, ECT 2 antibody, ECT-2 protein antibody, Epithelial cell transforming sequence 2 antibody
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

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Target Details	
Target:	ECT2
Alternative Name:	ECT2 (ECT2 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. 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
	phosphorylated 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.
Gene ID:	1894, 21735572
UniProt:	Q9H8V3
Pathways:	Neurotrophin Signaling Pathway, Cell-Cell Junction Organization
Application Details	
Application Notes	Application Note [.] This affinity-purified antibody has been tested for use in FLISA western blot

Restrictions:	For Research Use only
	Other: User Optimized
	ELISA Dilution: 1:10,000 - 1:40,000
	Immunoprecipitation Dilution: User Optimized
	Western Blot Dilution: 1:1,000 - 1:4,000
	currently under preparation.
	phosphorylated at the pT790 residue. Experiments to generate more conclusive evidence are
	the immunizing peptide. This antibody is believed to be phospho specific for ECT2
	lysate or extract. Less than 2 $\%$ reactivity is observed against the non-phosphorylated form of
	user. Expect a band approximately 101 kDa in size by western blotting in the appropriate cell
	and immunoprecipitation. Specific conditions for reactivity should be optimized by the end
Application Notes:	Application Note: This affinity-purified antibody has been tested for use in ELISA, western blot

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Format:	Liquid
Concentration:	1.1 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

Images



Western Blotting

Image 1. Western blot using affinity purified 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. Personal Communication, Toru Miki, CCR-NCI, Bethesda, MD.