

Datasheet for ABIN129688
anti-ECT2 antibody (pThr790)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	ECT2
Binding Specificity:	AA 785-795, pThr790
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ECT2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

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.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Zebrafish (Brachydanio rerio), Chimpanzee, Chicken, Dog (Canine)
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	ECT2
Alternative Name:	ECT2 (ECT2 Products)

Target Details

Background: This antibody is designed, produced, 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 G₂ 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. Synonyms: ECT 2 antibody, ECT2 protein antibody, Epithelial cell transforming sequence 2 antibody

Gene ID: 1894, 21735572

UniProt: [Q9H8V3](#)

Pathways: [Neurotrophin Signaling Pathway](#), [Cell-Cell Junction Organization](#)

Application Details

Application Notes: This affinity-purified antibody has been tested for use in ELISA, western blot and immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 101 kDa in size by western blotting in the appropriate cell lysate or extract. Less than 2% reactivity is observed against the non-phosphorylated form of the immunizing peptide. This antibody is believed to be phospho specific for ECT2 phosphorylated at the pT790 residue. Experiments to generate more conclusive evidence are currently under preparation.

Restrictions: For Research Use only

Handling

Format: Liquid

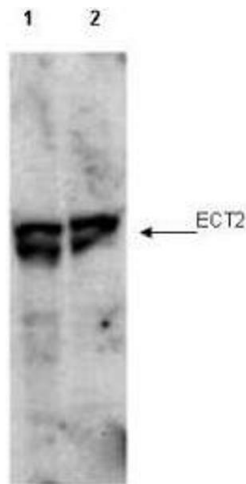
Concentration: 1.1 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Handling

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:	-20 °C

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.