Datasheet for ABIN7091081

anti-ECT2 antibody (AA 201-450)

Go to Product page

Overview

Quantity:	100 µL
Target:	ECT2
Binding Specificity:	AA 201-450
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ECT2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ECT2
Clone:	D12R1
Predicted Reactivity:	Human

Target Details

Target:	ECT2
Alternative Name:	ECT2 (ECT2 Products)
Background:	Synonyms: ECT 2, ECT-2, ECT2 protein, Epithelial cell transforming sequence 2, Epithelial cell transforming sequence 2 oncogene, Epithelial cell transforming sequence 2 oncogene protein, FLJ10461, MGC138291, Protein ECT2, ECT2_HUMAN, Epithelial cell-transforming sequence 2 oncogene.

Target Details

	Background: Guanine nucleotide exchange factor (GEF) that catalyzes the exchange of GDP for GTP. Promotes guanine nucleotide exchange on the Rho family members of small GTPases, like RHOA, RHOC, RAC1 and CDC42. Required for signal transduction pathways involved in the regulation of cytokinesis. Component of the centralspindlin complex that serves as a microtubule-dependent and Rho-mediated signaling required for the myosin contractile ring formation during the cell cycle cytokinesis. Regulates the translocation of RHOA from the central spindle to the equatorial region. Plays a role in the control of mitotic spindle assembly, regulates the activation of CDC42 in metaphase for the process of spindle fibers attachment to kinetochores before chromosome congression. Involved in the regulation of epithelial cell polarity, participates in the formation of epithelial tight junctions in a polarity complex PARD3-PARD6-protein kinase PRKCQ-dependent manner. Plays a role in the regulation of neurite outgrowth. Inhibits Phenobarbital (PB)-induced NR1I3 nuclear translocation. Stimulates the activity of RAC1 through its association with the oncogenic PARD6A-PRKCI complex in cancer cells, thereby acting to coordinately drive tumor cell proliferation and invasion. Also stimulates genotoxic stress-induced RHOB activity in breast cancer cells leading to their cell death.
Gene ID:	1894
UniProt:	Q9H8V3
Pathways:	Neurotrophin Signaling Pathway, Cell-Cell Junction Organization

Application Details

Application Notes:	WB 1:300-5000
Restrictions:	For Research Use only

Handling

Concentration:	0.5 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Handling

Expiry Date:	12 months