ECT2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ECT2, Polyclonal Antibody
Full Product Name	ECT2 Antibody, Biotin conjugated
Product Gene Name	anti-ECT2 antibody
Product Synonym Names	Protein ECT2; Epithelial cell-transforming sequence 2 oncogene; ECT2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: ECT2 (MBS7106333) Biotin Conjugated Antibody: ECT2 (MBS7106336)
Molecular Weight	100,051 Da
OMIM	AY376439 mRNA
3D Structure	ModBase 3D Structure for Q9H8V3
Immunogen	Recombinant Human Protein ECT2 protein (283-453AA)
Conjugation	Biotin
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ECT2 antibody	ELISA (EIA)
Related Product Information for anti-ECT2 antibody	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.
Other Notes	Small volumes of anti-ECT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ECT2 purchase	MBS7106336 is an antibody targeting ECT2. Also known as ECT2 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ECT2. It may not necessarily be applicable to this product.

NCBI GI #	385198079
NCBI GeneID	1894
NCBI Accession #	NP_001245244.1
UniProt Primary Accession #	Q9H8V3
UniProt Secondary Accession #	Q0MT80; Q2M269; Q6U836; Q9NSV8; Q9NVW9
UniProt Related Accession #	Q9H8V3
GenBank Nucleotide #	NM_001258315.1
NCBI Official Full Name	protein ECT2 isoform a
NCBI Official Synonym Full Names	epithelial cell transforming 2
NCBI Official Symbol	ECT2
NCBI Official Synonym Symbols	ARHGEF31
UniProt Protein Name	Protein ECT2
UniProt Synonym Protein Names	Epithelial cell-transforming sequence 2 oncogene
Protein Family	Protein
UniProt Gene Name	ECT2
NCBI Protein Information	protein ECT2
NCBI Summary for ECT2	The protein encoded by this gene is a guanine nucleotide exchange factor and transforming protein that is related to Rho-specific exchange factors and yeast cell cycle regulators. The expression of this gene is elevated with the onset of DNA synthesis and remains elevated during G2 and M phases. In situ hybridization analysis showed that expression is at a high level in cells undergoing mitosis in regenerating liver. Thus, this protein is expressed in a cell cycle-dependent manner during liver regeneration, and is thought to have an important role in the regulation of cytokinesis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2017]
Research Articles on ECT2	**1.** High PDC2 expression is associated with pancreatic adenocarcinoma.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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