

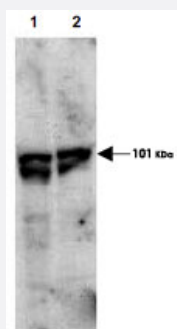
ECT2 (phospho T790) polyclonal antibody

Catalog # PAB10006

Size 100 ug

Applications

Western Blot (Cell lysate)



Western blot using ECT2 (phospho T790) polyclonal antibody (Cat # PAB10006) shows detection of endogenous phospho-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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of ECT2.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding T790 of human ECT2.
Host	Rabbit
Reactivity	Chicken, Chimpanzee, Dog, Human, Mouse, Rat, Zebra fish
Specificity	Reactivity occurs against human ECT2 protein at the pT790 residue. By ELISA This antibody is specific to the phosphorylated form of the protein. Reactivity with non-phosphorylated human ECT2 is minimal by ELISA, but western blot shows specific staining of interphase cell lysates, which are predicted to contain non-phosphorylated ECT2.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	ELISA (1:10000-1:40000) Western Blot (1:1000-1:4000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ECT2

Entrez GeneID	1894
Protein Accession#	NP_060568:Q9H8V3
Gene Name	ECT2
Gene Alias	FLJ10461, MGC138291
Gene Description	epithelial cell transforming sequence 2 oncogene
Omim ID	600586
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a 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. [provided by RefSeq]

Other Designations

epithelial cell transforming sequence 2 oncogene protein

Publication Reference

- [MgcRacGAP controls the assembly of the contractile ring and the initiation of cytokinesis.](#)

Zhao WM, Fang G.

PNAS 2005 Sep; 102(37):13158.

Application: IF, WB-Ce, IP-WB, Human, HeLa S3 cells

- [Inhibition of cyclin-dependent kinase 1 induces cytokinesis without chromosome segregation in an ECT2 and MgcRacGAP-dependent manner.](#)

Niiya F, Xie X, Lee KS, Inoue H, Miki T.

The Journal of Biological Chemistry 2005 Oct; 280(43):36502.

- [The tandem BRCT domains of Ect2 are required for both negative and positive regulation of Ect2 in cytokinesis.](#)

Kim JE, Billadeau DD, Chen J.

The Journal of Biological Chemistry 2005 Feb; 280(7):5733.

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