

Product Name: KD-Validated ECT2 Mouse Monoclonal Antibody**Catalog #: KVA00558**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 103.5kDa

Antigen Information

Gene Name	ECT2
Alternative Names	ECT2; Epithelial Cell Transforming 2; ARHGEF31; Epithelial Cell-Transforming Sequence 2 Oncogene; Protein ECT2; Epithelial Cell Transforming Sequence 2 Oncogene
Gene ID	1894.0
SwissProt ID	Q9H8V3
Immunogen	Recombinant protein of human ECT2

Background

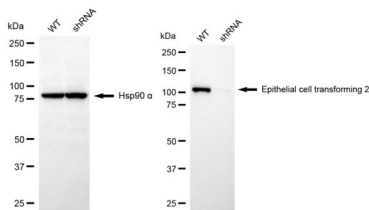
The protein encoded by this gene is a guanine nucleotide exchange factor and transforming protein that is related to Rho-specific exchange factors and yeast cell cycle regulators. The expression of this gene is elevated with the onset of DNA synthesis and remains elevated during G2 and M phases. In situ 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]

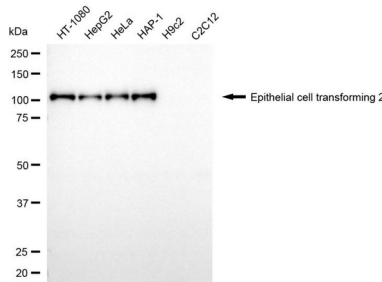
Research Area

Cell Biology

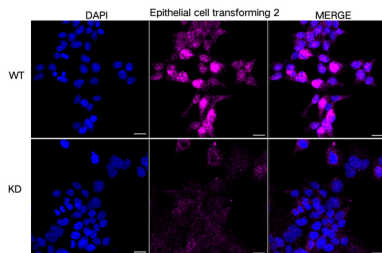
Image Data



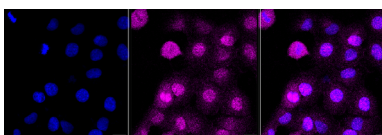
Western blotting analysis using epithelial cell transforming 2 antibody (KVA00558). Epithelial cell transforming 2 expression in wild type (WT) and epithelial cell transforming 2 (ECT2) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with epithelial cell transforming 2 antibody (KVA00558, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



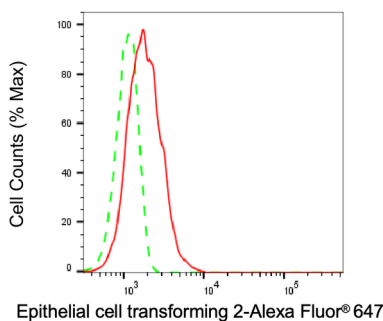
Western blotting analysis using epithelial cell transforming 2 antibody (KVA00558). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with epithelial cell transforming 2 antibody (KVA00558, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Epithelial cell transforming 2 antibody (KVA00558, 1:1,000), Top panel: wild-type (WT); Bottom panel: Epithelial cell transforming 2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Epithelial cell transforming 2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Epithelial cell transforming 2 antibody (KVA00558, 1:500). Nuclei were stained blue with DAPI; Epithelial cell transforming 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of Epithelial cell transforming 2 expression in HT-1080 cells using Epithelial cell transforming 2 antibody (KVA00558, 1:1,000). Green, isotype control; red, Epithelial cell transforming 2.

