

ENC1 Rabbit pAb

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Product Information

Application IHC-P, IHC-F, IF

Primary Accession <u>014682</u>

ReactivityHuman, Mouse, Rabbit, Horse **Predicted**Human, Rabbit, Horse, Sheep

Host Rabbit
Clonality Polyclonal
Calculated MW 66130
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human ENC1

Epitope Specificity 241-300/589

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus matrix. Cytoplasm, cytoskeleton.

SIMILARITY Contains 1 BTB (POZ) domain. Contains 6 Kelch repeats.

SUBUNITBinds to RB1. Hypophosphorylated RB1 associates with ENC1 during neuronal differentiation, while hyperphosphorylated RB1 associates with ENC1 in

undifferentiating cells. Part of a complex that contains CUL3, RBX1 and ENC1.

Post-translational Ubiquitinated and probably targeted for proteasome-independent degradation.

nodifications degradation

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions Actin-binding protein involved in the regulation of neuronal process

formation and in differentiation of neural crest cells. May be down-regulated

in neuroblastoma tumors. Substrate-specific adapter of an E3

ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Tissue specificity: Detected in fetal brain tissue, moderate expression in fetal heart, lung and kidney. Highly expressed in adult brain, particularly high in the hippocampus

and amygdala, and spinal chord. Detectable in adult pancreas.

Additional Information

Gene ID 8507

Other Names Ectoderm-neural cortex protein 1, ENC-1, Kelch-like protein 37, Nuclear matrix

protein NRP/B, p53-induced gene 10 protein, ENC1, KLHL37, NRPB, PIG10

Target/Specificity Detected in fetal brain tissue, moderate expression in fetal heart, lung and

kidney. Highly expressed in adult brain, particularly high in the hippocampus

and amygdala, and spinal chord. Detectable in adult pancreas.

Dilution IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=0.

2ug/test

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name ENC1

Synonyms KLHL37, NRPB, PIG10

Function Actin-binding protein involved in the regulation of neuronal process

formation and in differentiation of neural crest cells. Down- regulates transcription factor NF2L2/NRF2 by decreasing the rate of protein synthesis and not via a ubiquitin-mediated proteasomal degradation mechanism.

Cellular Location Nucleus matrix. Cytoplasm. Cytoplasm, cytoskeleton

Tissue Location Detected in fetal brain tissue, moderate expression in fetal heart, lung and

kidney. Highly expressed in adult brain, particularly high in the hippocampus

and amygdala, and spinal cord Detectable in adult pancreas. May be

down-regulated in neuroblastoma tumors

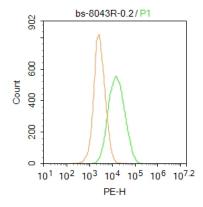
Background

Actin-binding protein involved in the regulation of neuronal process formation and in differentiation of neural crest cells. May be down-regulated in neuroblastoma tumors. Substrate-specific adapter of an E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.

Tissue specificity:

Detected in fetal brain tissue, moderate expression in fetal heart, lung and kidney. Highly expressed in adult brain, particularly high in the hippocampus and amygdala, and spinal chord. Detectable in adult pancreas.

Images



Blank control: A549.

Primary Antibody (green line): Rabbit Anti-ENC1 antibody

(AP58844)

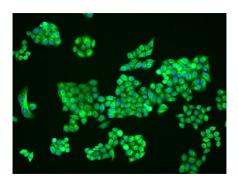
Dilution: $0.2 \mu g / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE

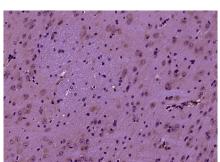
Dilution: 1 µg /test.

Protocol

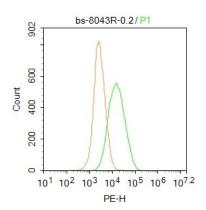
The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



MCF-7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (ENC1) polyclonal Antibody, Unconjugated (AP58844) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ENC1) Polyclonal Antibody, Unconjugated (AP58844) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: A549.

Primary Antibody (green line): Rabbit Anti-ENC1 antibody (AP58844)

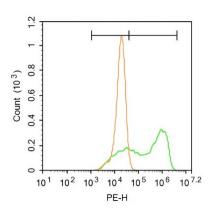
Dilution: 0.2 µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1 µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: A549.

Primary Antibody (green line): Rabbit Anti-ENC1 antibody (AP58844)

Dilution: 1 µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 3 µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.