

ECRG4 Rabbit pAb

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Catalog # AP59388

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H1Z8
Reactivity	Rat, Human
Predicted	Pig, Dog, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17183
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ECRG4/C2orf40
Epitope Specificity	41-148/148
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	Secreted. Cytoplasmic vesicle, secretory vesicle.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ECRG4, also known as augurin or C2orf40, is a 148 amino acid secreted protein. Belonging to the augurin family, ECRG4 is thought to be a hormone. It has also been suggested that ECRG4 may act as a tumor suppressor. The gene that encodes ECRG4 maps to human chromosome 2, which consists of 237 million bases encoding over 1,400 genes, making up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alstr syndrome is due to mutations in the ALMS1 gene. Interestingly, chromosome 2 contains what appears to be a vestigial second centromere and vestigial telomeres which gives credence to the hypothesis that human chromosome 2 is the result of an ancient fusion of two ancestral chromosomes.

Additional Information

Gene ID	84417
Other Names	Augurin, Esophageal cancer-related gene 4 protein {ECO:0000303 Ref.1}, ECRG4, ECRG4 (HGNC:24642), C2orf40
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200
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.

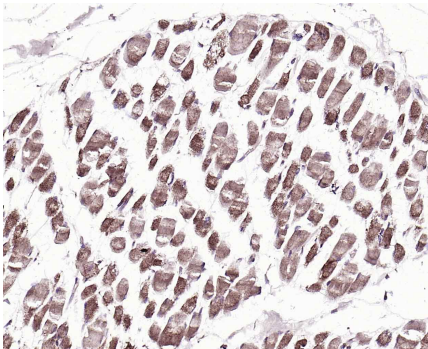
Protein Information

Name	ECRG4 (HGNC:24642)
Synonyms	C2orf40
Function	Probable hormone that may attenuate cell proliferation and induce senescence of oligodendrocyte and neural precursor cells in the central nervous system (By similarity). ECRG4-induced senescence is characterized by G1 arrest, RB1 dephosphorylation and accelerated CCND1 and CCND3 proteasomal degradation (By similarity).
Cellular Location	Secreted. Cytoplasm. Apical cell membrane
Tissue Location	Expressed in the brain, with expression in the epithelial cell layer of the choroid plexus (at protein level)

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (human skeletal muscle); 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; Incubation with (ECRG4) Polyclonal Antibody, Unconjugated (AP59388) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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