

ESPNL Rabbit pAb

Catalog # AP97682

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q6ZVH7
Other Accession	Q6ZVH7
Predicted	Rat, Pig, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108132
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ESPNL
Epitope Specificity	751-850/1005
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 9 ANK repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ESPNL is a 1,005 amino acid protein that contains nine ANK repeats and exists as three alternatively spliced isoforms. The gene encoding ESPNL maps to human chromosome 2q37.3 and mouse chromosome 1 D. Chromosome 2 is the second largest human chromosome, which consists of 237 million bases, encodes over 1,400 genes and makes 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 known as Alstrom 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 seen in modern form today in apes.

Additional Information

Gene ID	339768
Other Names	Gm556; ESPNL_HUMAN; ESPNL; ESPNL_MOUSE; espin like
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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	ESPNL
Function	Binds to but does not cross-link actin. Required for the formation and maintenance of inner ear hair cell stereocilia and staircase formation. Essential for normal hearing.
Cellular Location	Cell projection, stereocilium {ECO:0000250 UniProtKB:Q3UYR4}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.