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Bestrophin 4 Rabbit pAb

Catalog # AP96216

Product Information

Application	WB
Primary Accession	Q8NFU0
Other Accession	Q8NFU0
Reactivity	Human
Predicted	Pig, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53497
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Bestrophin 4
Epitope Specificity	151-250/473
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	Cell membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the bestrophin family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Bestrophin-4 is a 473 amino acid member of the Bestrophin family of proteins. Members of the Bestrophin family are transmembrane proteins that contain a high percentage of aromatic residues, a conserved RFP (Arg-Phe-Pro) motif and they function as anion channels. Bestrophin-4 acts as a calcium-sensitive chloride channel located in the cell membrane. It is believed that Bestrophin-4 also acts as a channel for other physiologically significant anions, such as bicarbonate. Bestrophin-4 is predominantly expressed in the colon, but can be found at low levels in testis, placenta, trachea, spinal chord, lung and retina.

Additional Information

Gene ID	266675
Other Names	VMD2L2; BEST4_HUMAN; BEST4; Vitelliform macular dystrophy 2-like protein 2; bestrophin 4; vitelliform macular dystrophy 2-like 2
Target/Specificity	Predominantly found in colon and the weakly in fetal brain, spinal cord, retina, lung, trachea, testis and placenta.
Dilution	WB=1:500-2000
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	BEST4 (HGNC:17106)
Function	Ligand-gated anion channel that allows the movement of anions across cell membranes when activated by Calcium (Ca2+) (PubMed:12907679, PubMed:18400985). Mediates the movement of hydrogencarbonate and chloride (PubMed:12907679, PubMed:18400985).
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	Predominantly found in colon and the weakly in fetal brain, spinal cord, retina, lung, trachea, testis and placenta

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