

Bestrophin 4 Rabbit pAb

Catalog # AP96216

Product Information

Application	WB
Primary Accession	Q8NEU0
Other Accession	Q8NEU0
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.
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
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)
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Function	Ligand-gated anion channel that allows the movement of anions across cell membranes when activated by Calcium (Ca ²⁺) (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'.