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Rabbit Anti-Bestrophin 2 antibody

SL11041R

Product Name:	Bestrophin 2
Chinese Name:	卵黄状黄斑病蛋白2抗体
Alias:	BEST 2; Best disease Bestrophin; BEST2; Bestrophin2; FLJ20132; Vitelliform macular dystrophy 2 homolog; Vitelliform macular dystrophy 2 like 1; Vitelliform macular dystrophy 2 like protein 1; Vitelliform macular dystrophy; VMD2; VMD2 like gene 1; VMD2L1; BEST2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Bestrophin 2:101-200/509
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	The Bestrophins are a newly described family of anion channels unrelated in primary sequence to any previously characterized channel proteins. Bestrophins were originally defined as a family of over 20 related sequences of the C. elegans. The first mammalian Bestrophin was identified as the vitelliform macular dystrophy (VMD), 1 also known as

	Best disease. Three more members of the bestrophin family members were cloned and indentified recently, Bestrophin 2, 3 and 4. RT PCR analyses revealed tissue restricted expression of the three genes with both Bestrophin 1 and Bestrophin 2 are abundantly transcribed in colon. Functionally the bestrophines oligomerise to form tetramers and pentamers in order to act as calcium sensitive chloride channels. It has been shown that Bestrophin interacts with beta catalytic subunit of protein phosphatase 2A (PP2Ac). Such protein protein interaction between Bestrophin and PP2Ac and the structural subunit of PP2A, PR65, was confirmed by reciprocal immunoprecipitation. The interaction between PP2Ac and the Bestrophin takes place near the carboxy terminal end of the protein. **Function:** Forms calcium-sensitive chloride channels. Permeable to bicarbonate. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** Mainly confined to the retinal pigment epithelium and colon. **Similarity:** Belongs to the bestrophin family. **SWISS:** Q8NFU1 **Gene ID:** 54831 **Database links:** Entrez Gene: 54831Human Entrez Gene: 212989Mouse Entrez Gene: 364973Rat Omim: 607335Human SwissProt: Q8NFU1Human SwissProt: Q6H1U9Mouse SwissProt: Q8BGM5Mouse Unigene: 435611Human

	Unigene: 215154Mouse Unigene: 31577Mouse Unigene: 136565Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.