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Anti-BEST2 / Bestrophin-2 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17574

Product Information

Application	IHC-P
Primary Accession	Q8NFU1
Predicted	Human, Mouse, Rat, Hamster, Monkey, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57139
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	54831
Alias Symbol	BEST2
Other Names	BEST2, Bestrophin-2, Bestrophin 2, Hbest2, VMD2-like gene 1, VMD2L1
Target/Specificity	Human BEST2 / Bestrophin-2. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except BEST3 (59%).
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-BEST2 / Bestrophin-2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BEST2 (HGNC:17107)
Synonyms	VMD2L1
Function	Ligand-gated anion channel that allows the movement of anions across cell membranes when activated by calcium (Ca2+) (PubMed:11904445, PubMed:18400985, PubMed:32251414, PubMed:35789156, PubMed:36289327). Transports a large specter of anions, namely mediates the movement of chloride, L-glutamate and iodide (PubMed:11904445, PubMed:18400985, PubMed:32251414, PubMed:35789156, PubMed:36289327). Calcium-binding triggers the dilation of the aperture, but calcium- dependent gating is only effective when the size of the passing anion is bigger than the closed aperture (By similarity). Mediates the calcium-activated hydrogencarbonate movement and participates in colonic hydrogencarbonate secretion concomitant with mucin secretion (By similarity). In non-pigmented epithelium (NPE), mediates the efflux of

	intracellular L-glutamate; binding of intracellular L-glutamate activates and open both the neck and the aperture of the channel, leading to L-glutamate exit promoting chloride influx movement from the extracellular side in trans (PubMed:36289327). Also exhibits a directional permeability for intracellular glutamine, in a similar manner as for L-glutamate (PubMed:36289327).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:E1BF86}; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein
Tissue Location	Mainly confined to the retinal pigment epithelium (PubMed:12032738). Expressed in colon (PubMed:12032738, PubMed:20407206).