

**Anti-BEST2 / Bestrophin-2 Antibody (Internal)**  
**Rabbit Anti Human Polyclonal Antibody**  
**Catalog # ALS17574****Specification**

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**Anti-BEST2 / Bestrophin-2 Antibody (Internal) - Product Information**

Application	IHC-P
Primary Accession	<a href="#">O8NFU1</a>
Predicted	Human, Mouse, Rat, Hamster, Monkey, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57139

**Anti-BEST2 / Bestrophin-2 Antibody (Internal) - Additional Information****Gene ID** 54831

Alias Symbol	<b>BEST2</b>
<b>Other Names</b>	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.

**Anti-BEST2 / Bestrophin-2 Antibody (Internal) - 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 (Ca<sup>2+</sup>) (PubMed: [11904445](http://www.uniprot.org/citations/11904445), PubMed: [18400985](http://www.uniprot.org/citations/18400985), PubMed: [32251414](http://www.uniprot.org/citations/32251414), PubMed: [35789156](http://www.uniprot.org/citations/35789156), PubMed: [36289327](http://www.uniprot.org/citations/36289327)). Transports a large specter of anions, namely mediates the movement of chloride, L-glutamate and iodide (PubMed:

<http://www.uniprot.org/citations/11904445> target="\_blank">11904445</a>, PubMed:<a href="http://www.uniprot.org/citations/18400985" target="\_blank">18400985</a>, PubMed:<a href="http://www.uniprot.org/citations/32251414" target="\_blank">32251414</a>, PubMed:<a href="http://www.uniprot.org/citations/35789156" target="\_blank">35789156</a>, PubMed:<a href="http://www.uniprot.org/citations/36289327" target="\_blank">36289327</a>).

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:<a href="http://www.uniprot.org/citations/36289327" target="\_blank">36289327</a>). Also exhibits a directional permeability for intracellular glutamine, in a similar manner as for L-glutamate (PubMed:<a href="http://www.uniprot.org/citations/36289327" target="\_blank">36289327</a>).

#### 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).

### Anti-BEST2 / Bestrophin-2 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-BEST2 / Bestrophin-2 Antibody (Internal) - Images