

# Anti-Bestrophin Antibody

Rabbit polyclonal antibody to Bestrophin

Catalog # AP61629

## Product Information

Application	WB
Primary Accession	<a href="#">O76090</a>
Other Accession	<a href="#">O88870</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67684

## Additional Information

Gene ID	7439
Other Names	VMD2; Bestrophin-1; TU15B; Vitelliform macular dystrophy protein 2
Target/Specificity	Recognizes endogenous levels of Bestrophin protein.
Dilution	WB~~1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	BEST1 ( <a href="#">HGNC:12703</a> )
Function	Ligand-gated anion channel that allows the movement of anions across cell membranes when activated by calcium (Ca <sup>2+</sup> ) (PubMed: <a href="#">11904445</a> , PubMed: <a href="#">12907679</a> , PubMed: <a href="#">18179881</a> , PubMed: <a href="#">18400985</a> , PubMed: <a href="#">19853238</a> , PubMed: <a href="#">21330666</a> , PubMed: <a href="#">26200502</a> , PubMed: <a href="#">26720466</a> , PubMed: <a href="#">35789156</a> ). Allows the movement of chloride and hydrogencarbonate (PubMed: <a href="#">11904445</a> , PubMed: <a href="#">12907679</a> , PubMed: <a href="#">18179881</a> , PubMed: <a href="#">18400985</a> , PubMed: <a href="#">19853238</a> , PubMed: <a href="#">21330666</a> , PubMed: <a href="#">26200502</a> , PubMed: <a href="#">26720466</a> , PubMed: <a href="#">35789156</a> ). Found in a partially open conformation leading to significantly smaller chloride movement (PubMed: <a href="#">35789156</a> ). Upon F2R/PAR-1 activation, the sequestered calcium is released into the cytosol of astrocytes, leading to the (Ca <sup>2+</sup> )-dependent release of L- glutamate into the synaptic cleft that targets the neuronal postsynaptic GRIN2A/NMDAR receptor resulting in the synaptic plasticity regulation (By similarity). Upon activation of the norepinephrine- alpha-1 adrenergic receptor signaling pathway,

transports as well D- serine than L-glutamate in a (Ca<sup>2+</sup>)-dependent manner, leading to activation of adjacent NMDAR receptors and therefore regulates the heterosynaptic long-term depression and metaplasticity during initial memory acquisition (By similarity). Releases the 4-aminobutanoate neurotransmitter in a (Ca<sup>2+</sup>)-dependent manner, and participates in its tonic release from cerebellar glial cells (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein Note=Localized at the surface membrane of microdomains adjacent to glutamatergic synapses.  
{ECO:0000250|UniProtKB:O88870}

**Tissue Location**

Predominantly expressed in the basolateral membrane of the retinal pigment epithelium

## Background

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Recombinant full length protein of human Bestrophin

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