

For Research Use Only

# Bestrophin-1 Polyclonal antibody

Catalog Number: 55012-1-AP



## Basic Information

<b>Catalog Number:</b> 55012-1-AP	<b>GenBank Accession Number:</b> NM_004183	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7439	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O76090	
<b>Isotype:</b> IgG	<b>Full Name:</b> bestrophin 1	
	<b>Calculated MW:</b> 69 kDa	

## Applications

**Tested Applications:**  
ELISA

**Species Specificity:**  
human

## Background Information

Bestrophin-1 (BEST1) is a 68 kDa transmembrane protein which belongs to the bestrophin family of anion channels. It is predominantly expressed in the basolateral membrane of the retinal pigment epithelium. Studies show that bestrophin 1 functions as a  $\text{Ca}^{2+}$ -dependent  $\text{Cl}^{-}$  channel and modulator of voltage-dependent L-type  $\text{Ca}^{2+}$  channels. It may also contribute to the basolateral cell conductance in airway epithelial cells. This protein is encoded by the VMD2 gene. Mutations in VMD2 can lead to different types of retinal or macular degenerations, including Best vitelliform macular dystrophy (BMD), autosomal recessive bestrophinopathy (ARB), autosomal dominant vitreoretinopathopathy (ADVIRC) and adult-onset vitelliform macular dystrophy (AVMD).

## Storage

**Storage:**  
Store at  $-20^{\circ}\text{C}$ .

**Storage Buffer:**  
0.1M  $\text{NaHCO}_3$ , 0.1M glycine, 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for  $-20^{\circ}\text{C}$  storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

