

Bestrophin-1 Monoclonal antibody

Catalog Number: 60326-1-Ig **2 Publications**

Basic Information

Catalog Number: 60326-1-Ig	GenBank Accession Number: BC015220	Purification Method: Protein G purification
Size: 780 µg/ml	GeneID (NCBI): 7439	CloneNo.: 4D5F1
Source: Mouse	UNIPROT ID: O76090	Recommended Dilutions: WB 1:500-1:2000 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: bestrophin 1	
Immunogen Catalog Number: AG15129	Calculated MW: 585 aa, 68 kDa Observed MW: 68 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : Y79 cells, Transfected HEK-293 cells IF/ICC : Y79 cells,
Cited Applications: WB, IF	
Species Specificity: human	
Cited Species: human, rat	

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 Ca(2+)-dependent Cl(-) channel and modulator of voltage-dependent L-type 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 vitreoretinopathy (ADVIRC) and adult-onset vitelliform macular dystrophy (AVMD).

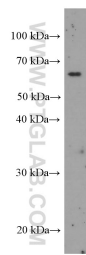
Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoman Zhu	36096985	Cell Death Dis	IF
Hao Wu	39674551	Neurobiol Dis	WB

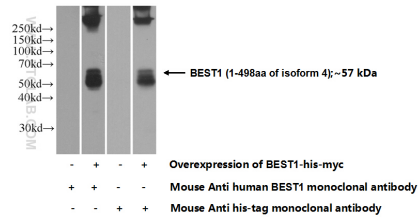
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

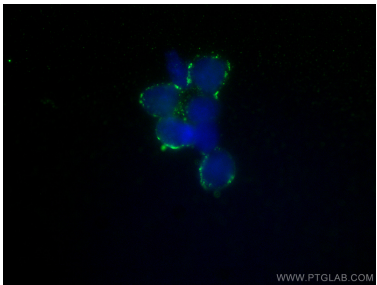
Selected Validation Data



Y79 cells were subjected to SDS PAGE followed by western blot with 60326-1-Ig (Bestrophin-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of Bestrophin-1 antibody (60326-1-Ig; 1:1000; room temperature for 1.5 hours) with negative control and Bestrophin-1 overexpressed Transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed Y79 cells using Bestrophin-1 antibody (60326-1-Ig, Clone: 4D5F1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).