

## Mouse Monoclonal anti-Bestrophin (E6-6), Sample Size

<b>Catalog Number:</b>	NB300-164SS
<b>Background:</b>	Best macular dystrophy (BMD) or vitelliform macular dystrophy (VMD2), is an autosomal form of macular degeneration, characterized by a depressed light peak in the electrooculogram (EOG). It is inherited and has an early onset. Bestrophin is a 68 kDa basolateral plasma membrane protein encoded by the VMD2 gene. Bestrophin's function is still unknown, but data suggests that it is a chloride channel that plays a role in generating the altered EOG in Best disease patients. In addition, Bestrophin is a useful biochemical and histological marker of RPE (retinal pigment epithelial cells) cells.
<b>Host:</b>	Mouse
<b>Research Areas:</b>	Cell Type or Structure Marker, Neuroscience, Neuroscience, Vision
<b>Immunogen:</b>	Synthetic peptide conjugated to KLH [KDHMDPYWALENRDEAHS].
<b>Clone:</b>	E6-6
<b>Isotype:</b>	IgG1 kappa
<b>Species Reactivity:</b>	NB 300-164 recognizes human, porcine, and monkey. This antibody does not work in rat. Other species have not been tested.
<b>Uses:</b>	By Western blot, this antibody recognizes a band at ~68 kDa representing Bestrophin.** It is also useful for immunofluorescence.  **Please see protocol for treatment of cell extract.  * Other applications have not been tested.
<b>Dilutions:</b>	Suggested working dilutions * immunofluorescence Assay dependent, Western Blot 1:1,000 * Investigator should determine optimal working dilutions.
<b>Positive Controls:</b>	Pig RPE (Retinal Pigment Epithelium) whole cell extract
<b>Packaging:</b>	0.025 ml Ascites Mouse ascites.
<b>Preservative:</b>	0.1% sodium azide
<b>Storage:</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Limitations:</b>	This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt.
<b>Product Specific References:</b>	1. Marmorstein, A.D., et al. Bestrophin, the product of the Best vitelliform macular dystrophy gene (VMD2), localizes to the basolateral plasma membrane of the retinal pigment epithelium. PNAS. 97(23): 12758-12763 (2000)
<b>General References:</b>	2. Petrushkin, K., et al. Identification of the gene responsible for Best macular dystrophy. Nature Genetics. 19: 241-247 (1998)



**Novus Biologicals, Inc**  
PO Box 802  
Littleton, CO 80160  
Phone: 1-888-506-6887  
Fax: 303-730-1966  
Email: [novus@novusbio.com](mailto:novus@novusbio.com)  
Go to: [www.NovusBio.com](http://www.NovusBio.com)

3. Caldwell, G.M., et al. Bestrophin gene mutations in patients with Best Vitelliform Macular Dystrophy. *Genomics*. 58: 98-100 (1999)
4. Marmorstein, L.Y., et al. Bestrophin physically and functionally interacts with protein phosphatase 2A. *JBC*. 277(34): 30591-30597 (2002)