

## Product datasheet for **CF501878**

### Bestrophin 3 (BEST3) Mouse Monoclonal Antibody [Clone ID: OTI1H5]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI1H5   |
| Applications:           | FC, IF, WB   |
| Recommended Dilution:   | WB 1:2000, IF 1:100, FLOW 1:100  |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human BEST3 (NP_689652) produced in HEK293T cell.   |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 50.8 kDa   |
| Gene Name:              | bestrophin 3   |
| Database Link:          | <a href="#">NP_689652</a><br><a href="#">Entrez Gene 144453 Human</a><br><a href="#">Q8N1M1</a>  |



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**Background:**

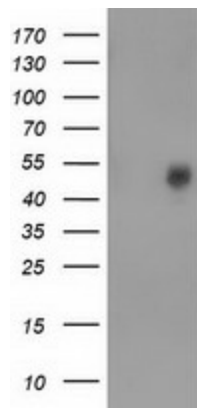
BEST3 belongs to the bestrophin family of anion channels, which includes BEST1 (MIM 607854), the gene mutant in vitelliform macular dystrophy (VMD; MIM 153700), and 2 other BEST1-like genes, BEST2 (MIM 607335) and BEST4 (MIM 607336). Bestrophins are transmembrane (TM) proteins that share a homology region containing a high content of aromatic residues, including an invariant arg-phe-pro (RFP) motif. The bestrophin genes share a conserved gene structure, with almost identical sizes of the 8 RFP-TM domain-encoding exons and highly conserved exon-intron boundaries. Each of the 4 bestrophin genes has a unique 3-prime end of variable length (Stohr et al., 2002 [PubMed 12032738]; Tsunenari et al., 2003 [PubMed 12907679]). [supplied by OMIM]

**Synonyms:**

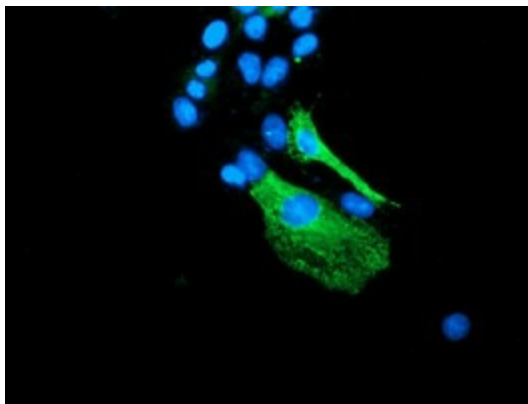
VMD2L3

**Protein Families:**

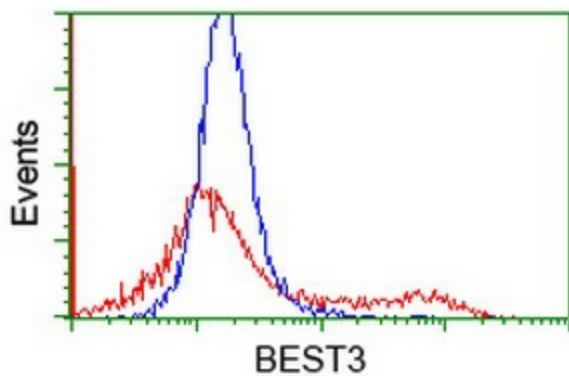
Ion Channels: Other, Transmembrane

**Product images:**


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BEST3 ([RC218436], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BEST3. Positive lysates [LY407540] (100ug) and [LC407540] (20ug) can be purchased separately from OriGene.



Anti-BEST3 mouse monoclonal antibody ([TA501878]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BEST3 ([RC218436]).



HEK293T cells transfected with either [RC218436] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-BEST3 antibody ([TA501878]), and then analyzed by flow cytometry.