10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BEST2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9246b

Specification

BEST2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q8NFU1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**57139**
Antigen Region	**374-403**

BEST2 Antibody (C-term) - Additional Information

Gene ID 54831

Other Names
Bestrophin-2, Vitelliform macular dystrophy 2-like protein 1, BEST2, VMD2L1

Target/Specificity
This BEST2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 374-403 amino acids from the C-terminal region of human BEST2.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
BEST2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

BEST2 Antibody (C-term) - Protein Information

Name BEST2 (HGNC:17107)

Synonyms VMD2L1

Function Ligand-gated anion channel that allows the movement of anions across cell membranes when activated by calcium (Ca2+) (PubMed:11904445, PubMed:18400985, PubMed:32251414, PubMed:35789156, PubMed:36289327). Transports a large specter of anions, namely mediates the movement of chloride, L-glutamate and iodide (PubMed:11904445, PubMed:18400985, PubMed:32251414, PubMed:35789156, PubMed:36289327). Calcium-binding triggers the dilation of the aperture, but calcium- dependent gating is only effective when the size of the passing anion is bigger than the closed aperture (By similarity). Mediates the calcium-activated hydrogencarbonate movement and participates in colonic hydrogencarbonate secretion concomitant with mucin secretion (By similarity). In non-pigmented epithelium (NPE), mediates the efflux of intracellular L-glutamate; binding of intracellular L-glutamate activates and open both the neck and the aperture of the channel, leading to L-glutamate exit promoting chloride influx movement from the extracellular side in trans (PubMed:36289327). Also exhibits a directional permeability for intracellular glutamine, in a similar manner as for L-glutamate (PubMed:36289327).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:E1BF86}; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein

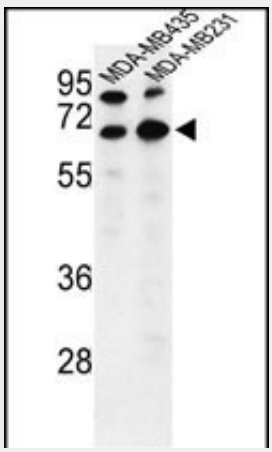
Tissue Location
Mainly confined to the retinal pigment epithelium (PubMed:12032738). Expressed in colon (PubMed:12032738, PubMed:20407206).

BEST2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BEST2 Antibody (C-term) - Images



Western blot analysis of BEST2 Antibody (C-term) (Cat. #AP9246b) in MDA-MB435,MDA-MB231 cell line lysates (35ug/lane).BEST2 (arrow) was detected using the purified Pab.

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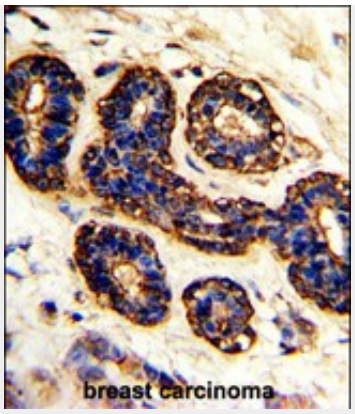

Formalin-fixed and paraffin-embedded human breast carcinoma with BEST2 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

BEST2 Antibody (C-term) - Background

BEST2 is a member of the bestrophin gene family of anion channels. Bestrophin genes share a similar gene structure with highly conserved exon-intron boundaries, but with distinct 3' ends. Bestrophins are transmembrane proteins that contain a homologous region rich in aromatic residues, including an invariant arg-phe-pro motif.

BEST2 Antibody (C-term) - References

Zhang,Y., et.al, Mol. Vis. 16, 200-206 (2010)
Marsey,L.L. et.al, J. Physiol. (Lond.) 587 (PT 10), 2211-2224 (2009)