

## Anti-ABCD4 Antibody

Catalog Number: A08479

### About ABCD4

Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na<sup>+</sup>/H<sup>+</sup> exchange activity. Binds to and activates SLC9A1/NHE1 in a serum-independent manner, thus increasing pH and protecting cells from serum deprivation-induced death. Also plays a role in the regulation of cell proliferation and tumor growth by increasing the phosphatase activity of PPP3CA in a calcium-dependent manner. Activator of the calcineurin/NFAT signaling pathway. Involved in the cytoplasmic translocation of the transcription factor NFATC3 to the nucleus.

Loftus B.J., Genomics 60:295-308(1999).

Wang Y., J. Immunol. 169:1102-1109(2002).

Pang T., J. Biol. Chem. 277:43771-43777(2002).

### Overview

Product Name	Anti-ABCD4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ABCD4 Antibody catalog # A08479. Tested in WB,IHC applications. This antibody reacts with Human,Mouse,Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O14678

### Technical Details

Immunogen	Synthesized peptide derived from internal of humanCHP2.
Predicted Reactive Species	Chimpanzee, Drosophila, Macaque
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-

specific immunogen and the purity is > 95% (by SDS-PAGE).

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

WB: 1:500-1:1000

IHC: 1:50-1:200

## Anti-ABCD4 Antibody (A08479) Images

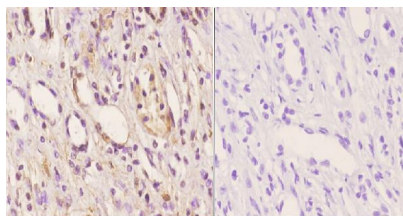


Figure 2. Immunohistochemistry validation of ABCD4 using Anti-ABCD4 Antibody (A08479).

Immunohistochemistry (IHC) analyzes of ABCD4 pAb in paraffin-embedded human kidney carcinoma tissue at 1:50, showing peroxisome membrane staining. Negative control (the right) Using PBS instead of primary antibody

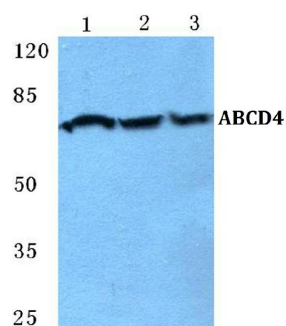


Figure 1. Western blotting validation for Anti-ABCD4 Antibody A08479

Western blot (WB) analysis of ABCD4 polyclonal antibody at 1:500 dilution  
Lane1:Hela cell lysate  
Lane2:Mouse kidney tissue lysate  
Lane3:Rat kidney tissue lysate  
Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

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