

ABCD4 polyclonal antibody

Catalog: BS5595

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

The peroxisomal membrane contains several ATP-binding cassette (ABC) transporters, ABCD1-4 that are known to be present in the human peroxisome membrane. All four proteins are ABC half-transporters, which dimerize to form an active transporter. A mutation in the ABCD1 gene causes X-linked adreno-leukodystrophy (X-ALD), a peroxisomal disorder which affects lipid storage. ABCD2 in mouse is expressed at high levels in the brain and adrenal organs, which are adversely affected in X-ALD. The peroxisomal membrane comprises two quantitatively major proteins, PMP22 and ABCD3. ABCD3 is associated with irregularly shaped vesicles which may be defective peroxisomes or peroxisome precursors. ABCD1 localizes to peroxisomes. ABCB7 is a half-transporter involved in the transport of heme from the mitochondria to the cytosol.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 73 kDa

Swiss-Prot:

O14678

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

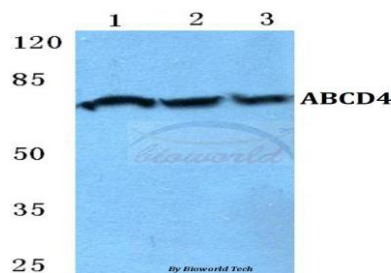
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

ABCD4 polyclonal antibody detects endogenous levels of ABCD4 protein.

DATA:

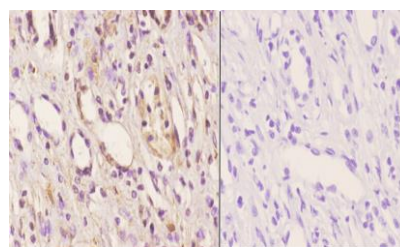


Western blot (WB) analysis of ABCD4 polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate

Lane2:Mouse kidney tissue lysate

Lane3:Rat kidney tissue lysate



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Lot: CNP9131

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, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

Note:

For research use only, not for use in diagnostic procedure.

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