

Anti-ELAVL2 HuB Antibody Picoband®

Catalog Number: A06194-2

About ELAVL2

ELAV-like protein 2 is a protein that in humans is encoded by the ELAVL2 gene. This gene encodes a member of the cytochrome P450 superfamily of enzymes, and is commonly known as sterol 27-hydroxylase. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This mitochondrial protein oxidizes cholesterol intermediates as part of the bile synthesis pathway. Since the conversion of cholesterol to bile acids is the major route for removing cholesterol from the body, this protein is important for overall cholesterol homeostasis. Mutations in this gene cause cerebrotendinous xanthomatosis, a rare autosomal recessive lipid storage disease.

Overview

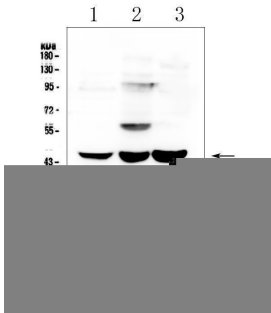
Product Name	Anti-ELAVL2 HuB Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ELAVL2 HuB Antibody Picoband® catalog # A06194-2. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q12926

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ELAVL2 HuB, which shares 97.4% amino acid (aa) sequence identity with both mouse and rat ELAVL2 HuB.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml

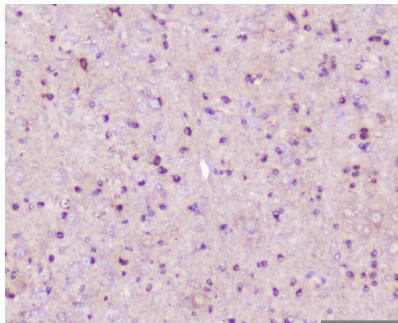
Anti-ELAVL2 HuB Antibody Picoband® (A06194-2) Images



Western blot analysis of ELAVL2 HuB using anti-ELAVL2 HuB antibody (A06194-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human T-47D whole cell lysate, Lane 2: human A549 whole cell lysate, Lane 3: human Caco-2 whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ELAVL2 HuB antigen affinity purified polyclonal antibody (Catalog # A06194-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ELAVL2 HuB at approximately 45KD. The expected band size for ELAVL2 HuB is at 40KD.

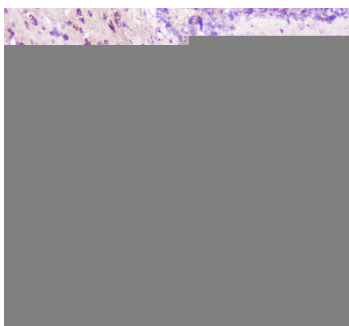


IHC analysis of ELAVL2 HuB using anti-ELAVL2 HuB antibody (A06194-2). ELAVL2 HuB was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ELAVL2 HuB Antibody (A06194-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

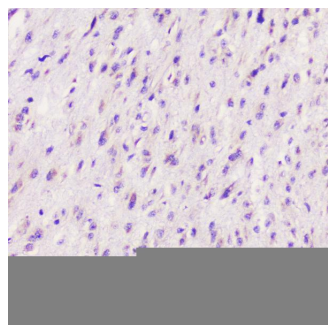


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Anti-ELAVL2 HuB Antibody

For Research Use Only. Not for use in diagnostic procedures.