BOSTER BIOLOGICAL TECHNOLOGY
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Anti-ELAVL4 Antibody Picoband®

Catalog Number: PB9698

About ELAVL4

HuD otherwise known as ELAV-like protein 4 or PNEM is a protein that in humans is encoded by the ELAVL4 gene. This human gene is located at 1p34 by in situ hybridization. The HuD/ELAVL4 protein is an RNA-binding protein. ELAVL4 has specificity for 3-prime uridylate-rich untranslated regions of growth factor mRNAs. And HuD is expressed only in neurons and it binds to AU-rich element-containing mRNAs. As a result of this interaction the, half-life of the transcript is increased. Also, HuD is important in neurons during brain development and plasticity.

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Overview

Product Name	Anti-ELAVL4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ELAVL4 Antibody Picoband® catalog # PB9698. Tested in IF, 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	IF, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P26378

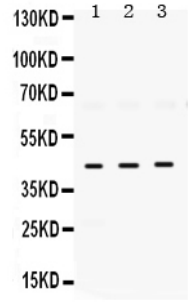
Technical Details

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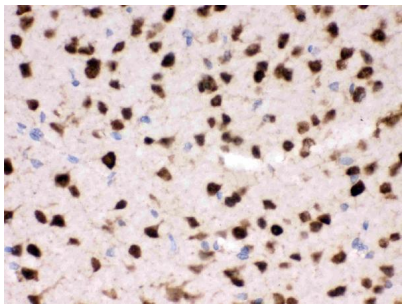
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ELAVL4, different from the related mouse and rat sequences by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated 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, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Immunofluorescence, 2ug/ml, Human

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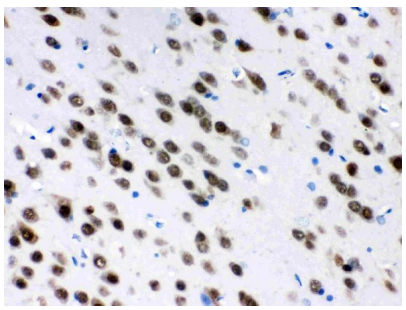
Anti-ELAVL4 Antibody Picoband® (PB9698) Images



Western blot analysis of ELAVL4 using anti-ELAVL4 antibody (PB9698). 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: rat brain tissue lysates, Lane 2: mouse brain tissue lysates, Lane 3: U87-MG whole cell lysates, 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-ELAVL4 antigen affinity purified polyclonal antibody (Catalog # PB9698) 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 ELAVL4 at approximately 42KD. The expected band size for ELAVL4 is at 42KD.



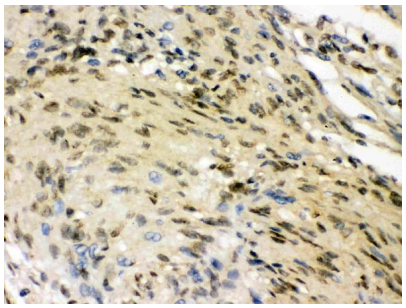
IHC analysis of ELAVL4 using anti-ELAVL4 antibody (PB9698). ELAVL4 was detected in paraffin-embedded section of mouse brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ELAVL4 Antibody (PB9698) 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 Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen



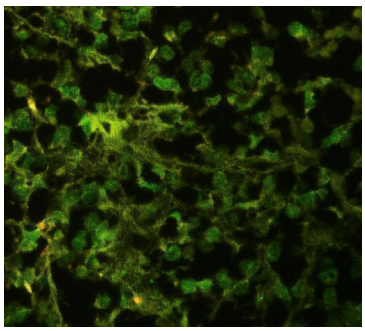
IHC analysis of ELAVL4 using anti-ELAVL4 antibody (PB9698). ELAVL4 was detected in paraffin-embedded section of rat brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ELAVL4 Antibody (PB9698) 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 Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen

IHC analysis of ELAVL4 using anti-ELAVL4 antibody (PB9698). ELAVL4 was detected in paraffin-embedded section of human meningeoma tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section

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was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ELAVL4 Antibody (PB9698) 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 Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



IF analysis of ELAVL4 using anti-ELAVL4 antibody (PB9698) ELAVL4 was detected in paraffin-embedded section of human glioma tissues. 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-ELAVL4 Antibody (PB9698) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Anti-ELAVL4 Antibody

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