

Anti-TIGAR Antibody Picoband®

Catalog Number: A05811-3

About TIGAR

Enables fructose-2,6-bisphosphate 2-phosphatase activity. Involved in positive regulation of pentose-phosphate shunt and response to ischemia. Acts upstream of or within several processes, including fructose 2,6-bisphosphate metabolic process; negative regulation of catabolic process; and positive regulation of cardiac muscle cell apoptotic process. Located in mitochondrion. Is expressed in several structures, including brain; heart; immune system; and liver. Orthologous to human TIGAR (TP53 induced glycolysis regulatory phosphatase).

Overview

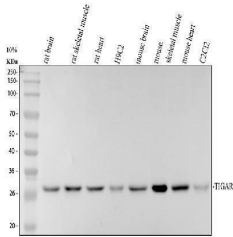
Product Name	Anti-TIGAR Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-TIGAR Antibody Picoband® catalog # A05811-3. Tested in WB, IHC, IF, ELISA applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior 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	ELISA, IF, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q8BZA9

Technical Details

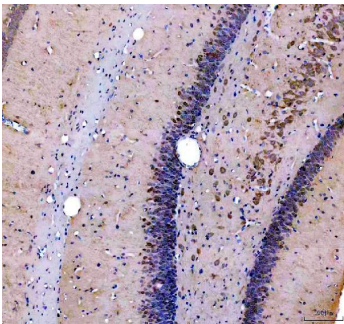
Immunogen	E.coli-derived mouse TIGAR recombinant protein (Position: M1-H269). Mouse TIGAR shares 72.8% amino acid (aa) sequence identity with human TIGAR.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat< Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Mouse, Rat Immunofluorescence, 5 ug/ml, Mouse ELISA, 0.1-0.5 ug/ml



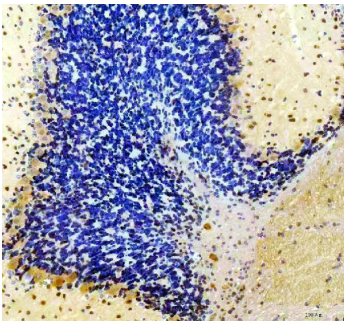
Anti-TIGAR Antibody Picoband® (A05811-3) Images



Western blot analysis of TIGAR using anti-TIGAR antibody (A05811-3). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat skeletal muscle tissue lysates, Lane 3: rat heart tissue lysates, Lane 4: rat H9C2 whole cell lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse skeletal muscle tissue lysates, Lane 7: mouse heart tissue lysates, Lane 8: mouse C2C12 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-TIGAR antigen affinity purified polyclonal antibody (A05811-3) 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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for TIGAR at approximately 30 kDa. The expected band size for TIGAR is at 30 kDa.

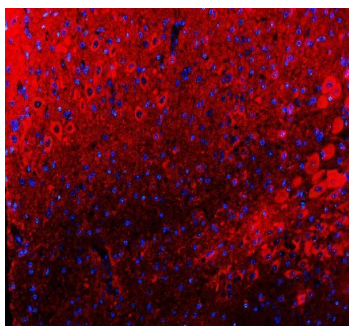


IHC analysis of TIGAR using anti-TIGAR antibody (A05811-3). TIGAR was detected in a paraffin-embedded section of mouse cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TIGAR Antibody (A05811-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of TIGAR using anti-TIGAR antibody (A05811-3). TIGAR was detected in a paraffin-embedded section of

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mouse cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-TIGAR Antibody (A05811-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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Anti-TIGAR Antibody

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