

Anti-GCN2/EIF2AK4 Antibody Picoband®

Catalog Number: PA2028

About Eif2ak4

EIF2AK4 (Eukaryotic Translation Initiation Factor 2-Alpha Kinase 4), also called GCN2, is an enzyme that in humans is encoded by the EIF2AK4 gene. EIF2AK4 belongs to a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation factor-2 to downregulate protein synthesis in response to varied cellular stresses. Hartz (2005) mapped the EIF2AK4 gene to chromosome 15q15.1 based on an alignment of the EIF2AK4 sequence with the genomic sequence. Berlanga et al. (1999) demonstrated that Gcn2 immunopurified from mouse liver extracts could phosphorylate rabbit Eif2 in vitro. Serum starvation increased the level of phosphorylated EIF2-alpha more than 2-fold in human embryonic kidney cells transfected with mouse Eif2ak4. Costa-Mattioli et al. (2005) reported a unique feature of hippocampal slices from Gcn2-null mice: in CA1, a single 100-Hz train induced a strong and sustained long-term potentiation (late LTP or L-LTP), which was dependent on transcription and translation.

Overview

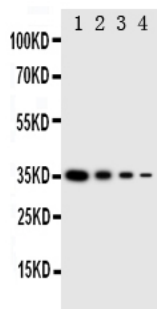
Product Name	Anti-GCN2/EIF2AK4 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-GCN2/EIF2AK4 Antibody catalog # PA2028. Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *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	Q9QZ05

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of mouse GCN2, different from the related rat sequence by one amino acid.
-----------	--

Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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, Mouse, Rat

Anti-GCN2/EIF2AK4 Antibody Picoband® (PA2028) Images



Anti-GCN2 antibody, PA2028, Western blotting
Protein Detection Source: E.coli derived -recombinant Mouse
EIF2AK4, 35.3KD (162aa tag+ E801-R954)
Lane 1:
Recombinant Mouse EIF2AK4 Protein 10ng Lane 2:
Recombinant Mouse EIF2AK4 Protein 5ng Lane 3:
Recombinant Mouse EIF2AK4 Protein 2.5ng Lane 4:
Recombinant Mouse EIF2AK4 Protein 1.25ng

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-GCN2/EIF2AK4 Antibody

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