

Anti-GAPDH Antibody

Catalog Number: PA1338

About GAPDH

Glyceraldehyde-3-phosphate dehydrogenase catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The enzyme is thought to be a tetramer of identical chains. Several highly homologous glyceraldehyde-3-phosphate dehydrogenase (GAPD)-related sequences have been identified previously in human DNA by Southern blot analysis. Protein studies have identified only a single expressed locus for this major glycolytic enzyme, and this maps to chromosome 12p13. Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is a critical regulator of CICD, it mediates an elevation in glycolysis and enhanced autophagy that cooperate to protect cells from CICD.

Overview

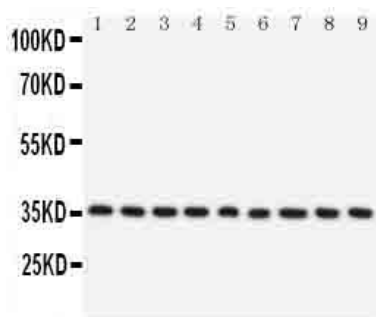
Product Name	Anti-GAPDH Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GAPDH Antibody catalog # PA1338. Tested in IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	FITC
Application	IHC, ICC, WB
Clonality	Monoclonal BAM-10
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
Host	Hamster
Uniprot ID	P04406

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GAPDH, identical to the related mouse and rat sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P), IHC(F) and ICC.
Cross Reactivity	No cross reactivity with other proteins

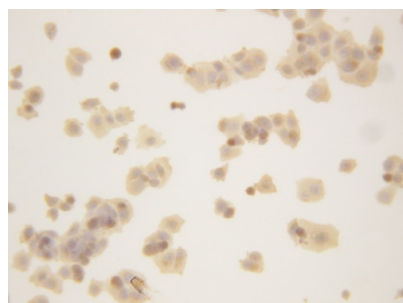
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen Affinity Purified
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunocytochemistry , 0.5-1ug/ml, Human, Mouse, Rat</p> <p>Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Mouse, Rat, Human</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

Anti-GAPDH Antibody (PA1338) Images

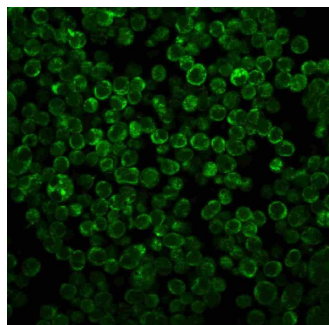


Anti-GAPDH antibody, PA1338, Western blotting

Lane 1: Rat Cardiac Muscle Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: Rat Liver Tissue Lysate
Lane 4: Rat Skeletal Muscle Tissue Lysate
Lane 5: MM453 Cell Lysate
Lane 6: MM231 Cell Lysate
Lane 7: SMMC Cell Lysate
Lane 8: HELA Cell Lysate
Lane 9: HT1080 Cell Lysate



Anti-GAPDH antibody, PA1338, ICC
ICC: MCF-7 Cell



Anti-GAPDH antibody, PA1338, ICC
ICC: SMMC Cell

68 Publications Citing This Product

1. PubMed ID: 23499895, Gao K, Li X, Zhang L, Bai L, Dong W, Gao K, Shi G, Xia X, Wu L, Zhang L. Cancer Lett. 2013 Jul 28;335(2):463-71. Doi: 10.1016/J.Canlet.2013.03.002. Epub 2013 Mar 14. Transgenic Expression Of Il-33 Activates Cd8(+) T Cells And Nk Cells And Inhibits...
2. PubMed ID: 22377751, Liu Z, Wang T, Yang J, Wang S, Yang W, Liu J, Ye Z. Mol Med Rep. 2012 May;5(5):1241-4. Doi: 10.3892/Mmr.2012.813. Epub 2012 Feb 28. Calcium Oxalate Monohydrate Crystals Stimulate Monocyte Chemoattractant Protein-1 And Transforming Grow...
3. PubMed ID: 24112539, Xu G, Zhang Y, Wei J, Jia W, Ge Z, Zhang Z, Liu X. BMC Cancer. 2013 Oct 10;13:469. Doi: 10.1186/1471-2407-13-469. MicroRNA-21 Promotes Hepatocellular Carcinoma Hepg2 Cell Proliferation Through Repression Of Mitogen-Activated Protein Kinase-Kinase 3.

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