

Basic Information

Product Name	Anti-GAPDH Antibody
Gene Name	GAPDH
Source	Rabbit
Isotype	IgG
Species Reactivity	human,mouse,rat
Tested Application	WB, ICC/IF
Contents	500ug/ml antibody with PBS , 0.02% NaN ₃ , 1mg BSA
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GAPDH(30-44aa IVAINDPFIDLNYMV), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Observed MW	36KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

Reference

Anti-GAPDH Antibody被引用在67文献中。

Selected Validation Data

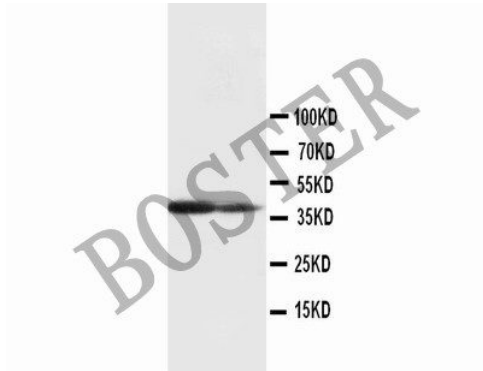


Figure 1. Western blot analysis of anti- GAPDH Antibody (BA2913). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: Rat myocardium tissue lysates,

Lane 2: brain tissue lysates.

Use rabbit anti- GAPDH 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for GAPDH at approximately 36KD. The expected band size for GAPDH is at 36KD.

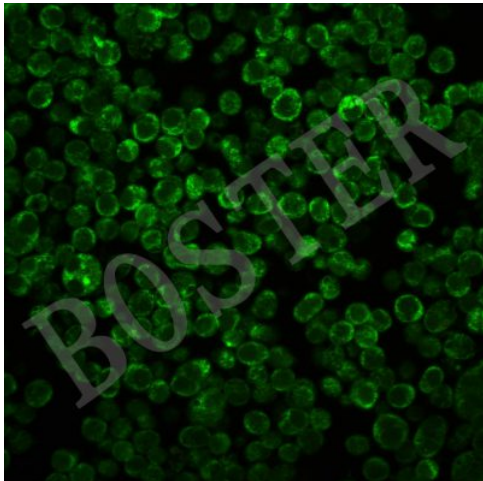


Figure 2. ICC analysis using anti- GAPDH Antibody (BA2913). was detected in immersion fixed SMMC cell line. Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog # BA1127) and counterstained with DAPI (blue).