

## Basic Information

Product Name	Anti-GAPDH HRP conjugated Antibody
Gene Name	GAPDH
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat, chicken, monkey, zebrafish
Tested Application	WB
Contents	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4.
Immunogen	Polypeptide
Concentration	0.5 mg/mL
Purification	HRP-GAPDH antibody is affinity chromatography purified via peptide column.
Dilution Ratios	Western blot (WB):1:1000-5000

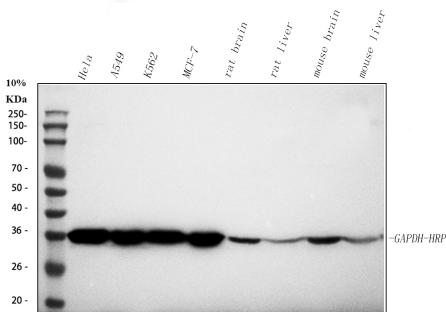
## Storage

HRP-GAPDH antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

## Background Information

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD), an important energy-yielding step in carbohydrate metabolism. It also is involved in a number of cellular processes such as membrane fusion, phosphotransferase activity, DNA replication and repair, and nuclear RNA export (1). GAPDH also plays a role in different pathologies such as cancer progression, apoptosis, and neuronal diseases such as Alzheimer's and Huntington's disease (2). GAPDH is constitutively expressed at high levels in almost all tissues and cell lines making it ideal for use as a loading control marker in immunoblots.

## Selected Validation Data



Western blot analysis of anti-GAPDH antibody (A00227-HRP). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,  
Lane 2: human A549 whole cell lysates,  
Lane 3: human A562 whole cell lysates,  
Lane 4: human MCF-7 whole cell lysates,  
Lane 5: rat brain tissue lysates,  
Lane 6: rat liver tissue lysates,  
Lane 7: mouse brain tissue lysates,  
Lane 8: mouse liver tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GAPDH antigen affinity purified polyclonal antibody (A00227-HRP). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GAPDH at approximately 36 kDa. The expected band size for GAPDH is at 36 kDa.