

Product Specification Sheet

Glyceraldehyde-3-phosphate dehydrogenase, G3PDH/GAPD/G3PD Antibodies

Cat. # G3PDH12-S	Goat Anti-Anti-Rabbit G3PDH antiserum #2	SIZE: 100 ul
Cat. # G3PDH11-C	Rabbit G3PDH purified protein +ve Control for WB	SIZE: 100 ul

Glyceraldehyde-3-phosphate dehydrogenase, G3PDH/GAPD/G3PD (EC 1.2.1.12) 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). G3PDH is a cytosolic enzyme. It is thought to be a tetramer of identical chains ~36 kda. G3PDH (mouse/rat/rabbit 333; human 335-aa, chromosome 12p13.31-p13.1). The enzyme is present in such widely separated forms as man, lobster, and E. coli. Its rate of evolutionary change is one of the slowest known.

Stability: 6-12 months at -20°C or below.

Shipping: 4°C for solutions and room temp for powder.

Recommended Usage

Western Blotting (1:500-3K for affinity pure IgG using ECL technique).

ELISA: Control antigen can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (0.5-1 ug/ml for affinity pure).

Source of Antigen and Antibodies

Antigen	Rabbit Muscle purified G3PDH protein
Ab Host/type	Goat, polyclonal Semi-pure antiserum (cat # G3PDH12-S) in PBS, pH 7.5 containing 0.05% azide
2-ab	Rabbit Anti-goat IgG-HRP conjugate Cat # 30220 (AP, biotin, FITC conjugates also available)
-ve control IgG	# 20011-1, Goat (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Specificity & Cross-reactivity

G3PDH12-S reacts with G3PDH from rabbits. It may crossreact with the G3PDH from other species. Antibody crossreactivity in various species is not confirmed. Purified G3PDH (cat # G3PDH11-C) can be used as +ve control for western.

General References: (1) Tso JY et al (1985) Nucl. Acid Res. 13, 2485-2502; Hanauer A et al (1984) EMBO J. 3, 2627-2633; Arcari P et al (1984) Nucl. Acid. Res. 12, 9179-9189; Meyer-Sigler K et al (1991) PNAS 88, 8460-8464; Tokunaga K et al (1987) Cancer Res. 47, 5616-5619; Allen RW et al (1987) JBC 262, 649-653

Purified Rabbit muscle G3PDH (cat # G3PDH11-C) protein for WB +ve control, is formulated in SDS-PAGE sample buffer (reduced). This preparation is biologically inactive. It is not suitable for ELISA or other applications where native protein is required. It is supplied in 100 ul/vial. For WB, heat once and load 10 ul/lane and visualize with appropriate antibodies (cat # G3PDH12-S or G3PDH111-M). This preparation is intended for qualitative purpose and not to serve as standard of known concentration. Store frozen in suitable aliquots. Do not freeze, thaw, or heat repeatedly.

**This product is for In vitro research use only.*

Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified)

00ul solution lyophilized powder
Supplied in Buffer: 0.05% azide
Reconstitute powder in 100 ul PBS

Short-term: unopened, undiluted vials for less than a week at 4°C.

Long-term: at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Related material available from ADI

Western blot recycling kit

Antigen-antibody pens for western

G3PDH12-S

70809A

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