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Goat Anti-Human GAPDH (C-Terminal)

CatNo LAH1064

polyclonal

BatchNo: Despatch Date:

Storage: 2-8°C for 1 month

-20°C for longer

Volume/Quantity: 0.1 mg

Product Form: Purified IgG - liquid

Antiserum Preparation: Antisera to human GAPDH (CT) were raised by repeated immunisations of goat with highly purified

antigen. Purified IgG prepared by affinity chromatography.

Buffer: TRIS buffered saline

Preservatives Stabilisers: 0.02% Sodium Azide (NaN₃)

0.5% Bovine Serum Albumin (BSA)

Approx. Protein

IgG concentration 0.5 mg/ml **Concentrations:**

Immunogen: Peptide sequence C-HQVVSSDFNSDT corresponding to the C-terminal region of GAPDH

(NP_002037.2).

Host: Goat

Specificity: LAH1064 recognises an epitope within the C-terminal (CT) region of glyceraldehyde-3-phosphate

dehydrogenase (GAPDH), a 36kD multifunctional protein whose main function is to catalyse the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate, in conjunction with inorganic phosphate and nicotinamide adenine dinucleotide (NAD). This reaction is an important energy yielding

step in carbohydrate metabolism.

GAPDH has also been shown to translocate to the nucleus under a variety of stressors, most of which are associated with oxidative stress, whereby it mediates cell death. A further report has shown that GAPDH binds to several proteins that are responsible for neurodegenerative diseases, such as amyloid

precursor protein and Huntingtin.

Species Cross Reactivity: Human, mouse, rat and pig.

Based on sequence similarity, is expected to react with: Dog

N.B. Antibody reactivity and working conditions may vary between species.

Applications:			Suggested Working Dilution
	FlowCytometry	Not tested	
	Immunohistology-frozen	Not tested	
	Immunohistology-paraffin *	Yes	0.3µg/ml
	Immunohistology-resin	Not tested	
	ELISA	Yes	1/2000
	Immunoprecipitation	Not tested	
	Western Blotting	Yes	0.01 - 0.03µg/ml
	Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls

LAH1064 130516-1/2



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Pre-treatment: *This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.

TRIS/EDTA buffer pH9.0 is recommended for this purpose.

Positive Control Tissue: Human tonsil

Recommended Secondary Rabbit anti-goat IgG HRP conjugate - (LINARIS CatNo LST0122P) Reagents: ABC-Kit goat IgG-POD Labelling (LINARIS CatNo EDP4005)

DAB-Substrate for POD (LINARIS CatNo E108) or HistoGreen-Substrate for POD (LINARIS CatNo E109)

ABC-Kit goat IgG AP Labelling (LINARIS CatNo EDA5005) BCIP/NBT Substrate for AP (LINARIS CatNo ESA5400)

Westernblotting

LAH1064 detects a band of approximately 35kDa in human tonsil, mouse spleen and HeLa cell lysates. **Important Comments:**

GAPDH is constitutively expressed in almost all tissues at high levels. It is therefore a useful marker

when a loading/positive control is required in western blotting.

Weight Standard: Biotinylated protein molecular weight marker (LINARIS CatNo RPB1400). Molecular weight range from

19kD to 222kD.

References

1. Hara, M.R. et al. (2006) GAPDH as a sensor of NO stress. Biochim. Biophys. Acta. 1762: 502-509. 2. Mazzola, J.L. and Sirover, M.A (2001) Reduction of glyceraldehyde-3-phosphate dehydrogenase

activity in Alzheimer's disease and in Huntington's disease fibroblasts. J. Neurochem. 76: 442-449.

Storage Conditions: Store at 2-8°C for one month or at -20°C for longer!

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a

precipitate we recommend microcentrifugation before use.

Shelf Life: 12 months from date of despatch.

Health and Safety

(A full Health and Safety assessment is available upon request)

Information:

This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be

handled by trained staff only.

LAH1064 130516-2/2 For Research purposes only. Not for therapeutic or diagnostic use.

Amtsgericht Tauberbischofsheim, HRB-Nr. 182-W · Geschäftsführerin: Karin Decker