

Datasheet: 5603-0036

Description:	SHEEP ANTI HUMAN LACTATE DEHYDROGENASE 5
Specificity:	LACTATE DEHYDROGENASE 5
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting	▪			1/100 - 1/500

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 5.0 mg/ml
Immunogen	Native, highly purified lactate dehydrogenase 5.
External Database Links	UniProt: P00338 Related reagents

Entrez Gene:[3939](#) LDHA [Related reagents](#)

RRID AB_2137174

Specificity **Sheep anti lactate dehydrogenase 5 antibody** reacts with LDH2-5, and exhibits low reactivity with LDH1. L-lactate dehydrogenase isozymes exist as tetramers of two subunits with LDH-1 composed for 4 β chains and LDH-5 composed of 4 α chains. LDH-2 = 3 β :1 α , LDH-3 = 2 β :2 α , LDH-4 = 1 β :3 α ([Boyer *et al.* 1963](#)).

Mutations in the LDHA gene can lead to the development of glycogen storage disease 11 ([GSD11](#)), a condition typified by myoglobinuria, fatigue and pain.

Further Reading

1. Markert, C.L. (1963) Lactate Dehydrogenase Isozymes: Dissociation and Recombination of Subunits. [Science. 140 \(3573\): 1329-30.](#)
2. Augoff, K. *et al.* (2015) Lactate dehydrogenase 5: an old friend and a new hope in the war on cancer. [Cancer Lett. 358 \(1\): 1-7.](#)
3. Boyer, S.H. *et al.* (1963) Lactate dehydrogenase variant from human blood: evidence for molecular subunits. [Science. 141 \(3581\): 642-3.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/5603-0036>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)**North & South** Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: antibody_sales_us@bio-rad.com**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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