

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

RRID AB_2137174

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 (NaN₃)

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](#)

Specificity	<p>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 = 3β:1α, LDH-3 = 2β:2α, LDH-4 = 1β:3α (Boyer et al. 1963).</p> <p>Mutations in the LDHA gene can lead to the development of glycogen storage disease 11 (GSD11), a condition typified by myogloinurea, fatigue and pain.</p>
Further Reading	<ol style="list-style-type: none"> 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	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	18 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [DyLight@488](#), [FITC](#), [HRP](#)
Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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
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