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 5.0mg/ml

Immunogen

Native, highly purified lactate dehydrogenase 5.

External Database Links

UniProt:

P00338 Related reagents

Entrez Gene:

3939 LDHA Related reagents

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 =3β:1α, LDH-3 = 2β:2α, LDH-4 = 1β:3α (Boyer *et al.* 1963). Mutations in the LDHA gene can lead to the development of glycogen storage disease 11 (GSD11), a condition typified by myogloinurea, 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	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.
Shelf Life	18 months from the date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10040 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...)	Biotin
Donkey Anti Sheep IgG (STAR88...)	DyLight®488, DyLight®549, DyLight®649, FITC, HRP

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