# LDH-AL6B (E-15): sc-247417



The Power to Question

#### **BACKGROUND**

The lactate dehydrogenase family (LDH) consists of three members, designated LDH-A, LDH-B and LDH-C, all of which work in concert to catalyze the final step of anaerobic glycolysis, namely the conversion of L-lactate and NAD+ to pyruvate and NADH. Each family member displays a specific tissue distribution pattern, with LDH-A present in muscle and LDH-B present in heart, while LDH-C expression is confined to testis and sperm. LDH-AL6B (lactate dehydrogenase A-like 6B), also known as LDHL or LDHAL6, is a 381 amino acid testis-specific protein that functions in a similar manner to LDH-A, specifically catalyzing the NAD+-dependent formation of pyruvate and NADH.

### **REFERENCES**

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- Kanno, T., et al. 1995. Lactate dehydrogenase M-subunit deficiencies: clinical features, metabolic background, and genetic heterogeneities. Muscle Nerve 3: 54-60.
- Kopperschlager, G., et al. 1996. Methods for the separation of lactate dehydrogenases and clinical significance of the enzyme. J. Chromatogr. B Biomed. Appl. 684: 25-49.
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- Pioli, P.A., et al. 2002. Lactate dehydrogenase is an AU-rich elementbinding protein that directly interacts with AUF1. J. Biol. Chem. 277: 35738-35745.

#### CHROMOSOMAL LOCATION

Genetic locus: LDHAL6B (human) mapping to 15q22.2.

## **SOURCE**

LDH-AL6B (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LDH-AL6B of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-247417 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **APPLICATIONS**

LDH-AL6B (E-15) is recommended for detection of LDH-AL6B of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with LDH-AL6A.

Suitable for use as control antibody for LDH-AL6B siRNA (h): sc-105611, LDH-AL6B shRNA Plasmid (h): sc-105611-SH and LDH-AL6B shRNA (h) Lentiviral Particles: sc-105611-V.

Molecular Weight of LDH-AL6B: 42 kDa.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

# **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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