

# Human Lactate Dehydrogenase B/LDHB Alexa Fluor® 405-conjugated Antibody

Monoclonal Rabbit IgG Clone # 2057D

Catalog Number: IC9205V

100 µg

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human LDHB in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Rabbit IgG Clone # 2057D
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human LDHB Met1-Val93 Accession # P07195
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	HeLa human cervical epithelial carcinoma cell line fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

LDHB is one of two subunits of Lactose Dehydrogenase which is formed from tetramer arrangements of the A and B subunits. LDHB is part of the pyruvate fermentation to lactate pathway in which it catalyzes the conversion of L-lactate and NAD to pyruvate and NADH. LDHA is widely expressed, with high expression in muscle and brain. High expression in tumor cells correlates with low survival rates in various cancers including osteosarcoma, oral squamous cell carcinoma breast and lung cancers. Unlike Lactose Dehydrogenase A, LDHB mutations are not linked to any disease

## PRODUCT SPECIFIC NOTICES

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