Human Lactate Dehydrogenase B/LDHB Alexa Fluor® 488-conjugated Antibody

Monoclonal Rabbit IgG Clone # 2057D
Catalog Number: IC9205G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LDHB in direct ELISAs and Western blots.
Source	Monoclonal Rabbit IgG Clone # 2057D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived recombinant human LDHB Met1-Val93 Accession # P07195
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 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

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

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 Dehyrogenase A, LDHB mutations are not linked to any disease

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