

DNP Monoclonal Antibody (LO-DNP-2)

Catalog Number 04-8300

Product Data Sheet

Details		Species Reactivity	
Size	500 µg	Tested species reactivity	Chemical
Host / Isotype	Rat IgG1, kappa	Published Species Reactivity	Not Applicable, Rat
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	ELISA (ELISA)	Assay Dependent
Clone	LO-DNP-2	Immunohistochemistry (IHC)	Assay Dependent
Immunogen	Synthetic DNP	Published Applications	
Conjugate	Unconjugated	Immunohistochemistry (IHC)	See 2 publications below
Form	Liquid	Neutralization (Neu)	See 2 publications below
Purification	purified	Western Blot (WB)	See 1 publications below
Storage Buffer	PBS	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Contains	0.1% sodium azide		
Storage Conditions	-20°C		

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Background/Target Information

DNP (2,4-dinitrophenol) is a toxic dye, chemically related to trinitrophenol (picric acid). It is used in biochemical studies of oxidative processes where it uncouples oxidative phosphorylation and is also used as a metabolic stimulant. 2,4-Dinitrophenol is used in the manufacture of dyes, wood preservatives, and as a pesticide. The acute (short-term) effects of 2,4-dinitrophenol in humans through oral exposure are nausea, vomiting, sweating, dizziness, headaches, and loss of weight. Chronic (long-term) oral exposure to 2,4-dinitrophenol in humans has resulted in the formation of cataracts and skin lesions, weight loss, and has caused effects on the bone marrow, central nervous system (CNS), and cardiovascular system. [National Center for Biotechnology Information. PubChem Compound Database; CID=1493]

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