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#94019

ដ្ត 15-PGDH/HPGD (E9H7W) Rabbit mAb



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Applications: W, W-S, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 24	Source/Isotype: Rabbit IgG	UniProt ID: #P15428	Entrez-Gene Id: 3248		
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:50 - 1:250 1:200			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/mL BSA, 50% glycerol, and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>						
Specificity/Sen	sitivity	15-PGDH/HPGD (E9H7W) Rabbit mAb recognizes endogenous levels of total 15-PGDH/HPGD protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human 15-PGDH/HPGD protein.						
Background		15-hydroxyprostaglandin dehydrogenase (15-PGDH or HPGD) catalyzes the rate-limiting step of prostaglandin E2 (PGE2) degradation (1). Its inhibition was shown to potentiate tissue regeneration in various mouse organs (2). Increased 15-PGDH/HPGD levels are a hallmark of aged skeletal muscles. 15-PGDH/HPGD inhibition in aged mouse muscles leads to elevated PGE2 levels and boosts mitochondrial biogenesis and function, enhancing muscle mass and strength (3). Studies show that loss of 15-PGDH/HPGD also leads to increased hematopoietic output and enhanced gastrointestinal fitness in aged mice, indicating a critical role of this enzyme in the regulation of tissue regeneration during aging (1). In addition, PPARy upregulates15-PGDH/HPGD expression in the regulatory T cells in visceral adipose tissue, suppressing conventional T cell activation and proliferation (4).						
Background Ro	eferences	1. Ho, W.J. et al. (2022) <i>PLoS One</i> 17, e0268787. 2. Zhang, Y. et al. (2015) <i>Science</i> 348, aaa2340. 3. Palla, A.R. et al. (2021) <i>Science</i> 371, eabc8059. doi: 10.1126/science.abc8059. 4. Schmidleithner, L. et al. (2019) <i>Immunity</i> 50, 1232-1248.e14.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting W-S: Simple Western [™] IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human						
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