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DHRS7C Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15804

Product Information

Application	WB
Primary Accession	A6NNS2
Other Accession	NM_001105571, NP_001099041
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34878

Additional Information

Gene ID	201140
Alias Symbol	SDR32C2
Other Names	Dehydrogenase/reductase SDR family member 7C, 1.1.-.-, DHRS7C
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-DHRS7C antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	DHRS7C Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DHRS7C (HGNC:32423)
Function	NADH-dependent oxidoreductase which catalyzes the oxidation of all-trans-retinol to all-trans-retinal. Plays a role in the regulation of cardiac and skeletal muscle metabolic functions. Maintains Ca(2+) intracellular homeostasis by repressing Ca(2+) release from the sarcoplasmic reticulum (SR) in myotubes, possibly through local alternations in NAD/NADH or retinol/retinal. Also plays a role in Ca(2+) homeostasis by controlling Ca(2+) overload in the cytosol and the SR in myotubes. Involved in glucose uptake into skeletal muscles and muscle performance by activating PI3K and mTORC2-mediated AKT1 phosphorylation signaling pathways, possibly through the action of its downstream catalytic product all-trans-retinoic acid.

Cellular Location	Sarcoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8CHS7}. Note=The N-terminus region encompasses a short hydrophobic sequence bound to the sarcoplasmic reticulum membrane, whereas the C-terminus catalytic domain faces the myoplasm In skeletal muscle, enriched in the longitudinal sarcoplasmic reticulum. {ECO:0000250|UniProtKB:Q8CHS7}

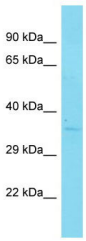
Background

Putative oxidoreductase.

References

Zody M.C.,et al.Nature 440:1045-1049(2006).

Images



Host: Rabbit
Target Name: DHRS7C
Sample Tissue: Placenta lysates
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.