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SDR-O antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13471

Product Information

Application	WB
Primary Accession	Q8NEX9
Other Accession	NM_148897, NP_683695
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35263

Additional Information

Gene ID	121214
Alias Symbol	FLJ16333, MGC126600, MGC126602, RDHS, SDRO, SDR-O
Other Names	Short-chain dehydrogenase/reductase family 9C member 7, 1.1.1.-, Orphan short-chain dehydrogenase/reductase, SDR-O, RDH-S, SDR9C7, RDHS, SDRO
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-SDR-O 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	SDR-O antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

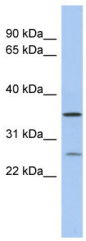
Name	SDR9C7
Synonyms	RDHS, SDRO
Function	Plays a crucial role in the formation of the epidermal permeability barrier (PubMed:31671075). Catalyzes the NAD+-dependent dehydrogenation of the linoleate 9,10-trans-epoxy-11E-13-alcohol esterified in omega-O-acylceramides (such as in N-[omega-(9R,10R)-epoxy-(13R)-hydroxy-(11E)-octadecenoyloxy]-acylsphing-4E-enine) to the corresponding 13-ketone, the reactive moiety required for binding of epidermal ceramides to proteins (PubMed:31671075). Displays weak conversion of all-trans-retinal to all-trans-retinol in the presence of NADH.

	Has apparently no steroid dehydrogenase activity (PubMed:19703561).
Cellular Location	Cytoplasm. Note=Granular distribution in the whole cell
Tissue Location	Expressed in the skin (PubMed:28173123). Expressed in granular and cornified layers of the epidermis (at protein level) (PubMed:28173123). Highly expressed in liver (PubMed:12234675)

References

Chen W.,et al.Gene 294:141-146(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Persson B.,et al.Chem. Biol. Interact. 178:94-98(2009).
Kowalik D.,et al.J. Steroid Biochem. Mol. Biol. 117:117-124(2009).

Images



WB Suggested Anti-SDR-O Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: 721_B cell lysate

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