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RDH12 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10748a

Specification

RDH12 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q96NR8

RDH12 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 145226

Other Names
Retinol dehydrogenase 12, 111-, All-trans and 9-cis retinol dehydrogenase, RDH12

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RDH12 Antibody (N-term) Blocking peptide - Protein Information

Name RDH12

Synonyms SDR7C2

Function
Retinoids dehydrogenase/reductase with a clear preference for NADP. Displays high activity towards 9-cis, 11-cis and all-trans- retinal. Shows very weak activity towards 13-cis-retinol (PubMed:15865448, PubMed:12226107). Also exhibits activity, albeit with lower affinity than for retinaldehydes, towards lipid peroxidation products (C9 aldehydes) such as 4-hydroxynonenal and trans-2-nonenal (PubMed:19686838, PubMed:15865448). May play an important function in photoreceptor cells to detoxify 4-hydroxynonenal and potentially other toxic aldehyde products resulting from lipid peroxidation (PubMed:19686838). Has no dehydrogenase activity towards steroids (PubMed:15865448, PubMed:12226107).

Cellular Location

Endoplasmic reticulum membrane

Tissue Location
Widely expressed, mostly in retina, kidney, brain, skeletal muscle, pancreas and stomach.

RDH12 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

RDH12 Antibody (N-term) Blocking peptide - Images

RDH12 Antibody (N-term) Blocking peptide - Background

The protein encoded by this gene is an NADPH-dependentretinal reductase whose highest activity is toward 9-cis andall-trans-retinol. The encoded enzyme also plays a role in themetabolism of short-chain aldehydes but does not exhibit steroiddehydrogenase activity. Defects in this gene are a cause of Lebercongenital amaurosis type 3 (LCA3).

RDH12 Antibody (N-term) Blocking peptide - References

Clark, G.R., et al. Ophthalmology 117(11):2169-2177(2010)Lee, S.A., et al. FEBS Lett. 584(3):507-510(2010)Marchette, L.D., et al. Free Radic. Biol. Med. 48(1):16-25(2010)Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009) :Sundaresan, P., et al. Mol. Vis. 15, 1781-1787 (2009) :