10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RDH10 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP4738c

Specification

RDH10 Antibody (Center) - Product Information

Application	**WB, FC, IHC-P,E**
Primary Accession	Q8IZV5
Other Accession	Q80ZF7, Q8VCH7, Q8HZT6
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38087**
Antigen Region	**106-135**

RDH10 Antibody (Center) - Additional Information

Gene ID 157506

Other Names
Retinol dehydrogenase 10, RDH10

Target/Specificity
This RDH10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 106-135 amino acids from the Central region of human RDH10.

Dilution
WB~~1:1000
FC~~1:10~50
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RDH10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RDH10 Antibody (Center) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name RDH10

Synonyms SDR16C4

Function Retinol dehydrogenase with a clear preference for NADP. Converts all-trans-retinol to all-trans-retinal. Has no detectable activity towards 11-cis-retinol, 9-cis-retinol and 13-cis-retinol.

Cellular Location
Microsome membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein

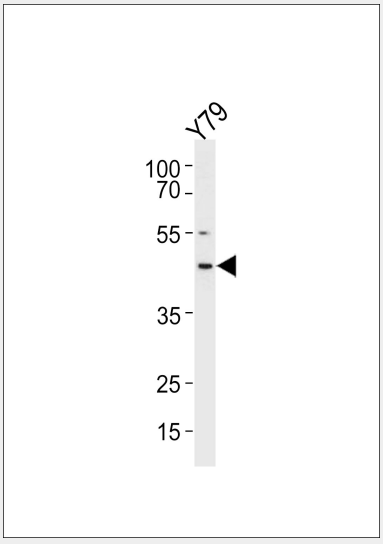
Tissue Location
Detected in retina, kidney, liver, small intestine, placenta, lung, heart and skeletal muscle

RDH10 Antibody (Center) - Protocols

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

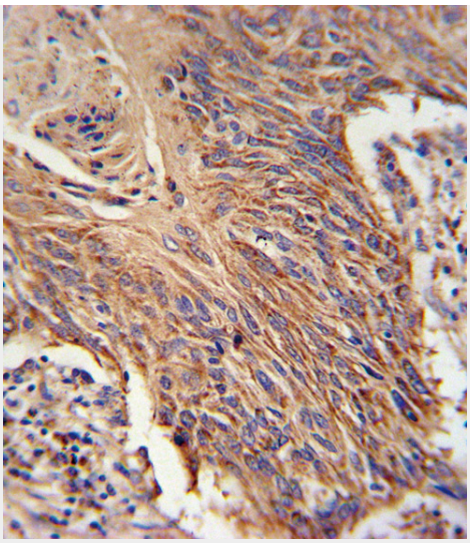
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RDH10 Antibody (Center) - Images

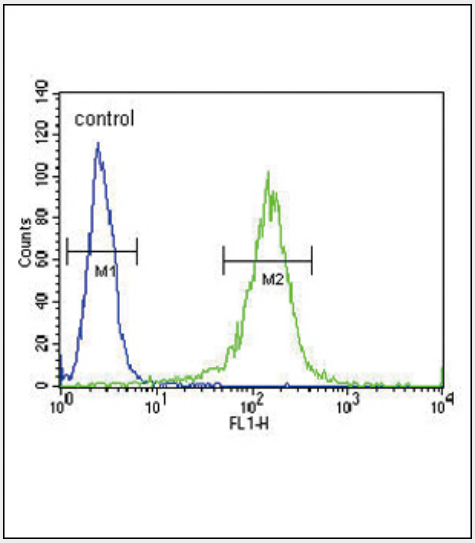


RDH10 Antibody (Center) (Cat. #AP4738c) western blot analysis in Y79 cell line lysates (35ug/lane).This demonstrates the RDH10 antibody detected the RDH10 protein (arrow).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



RDH10 Antibody (Center) (Cat. #AP4738c) immunohistochemistry analysis in formalin fixed and paraffin embedded lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the RDH10 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



RDH10 Antibody (Center) (Cat. #AP4738c) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

RDH10 Antibody (Center) - Background

RDH10 generates all-trans retinal from all-trans retinol and may plan an important role in the photic visual cycle. All-trans retinal is isomerized to 11-cis retinal by the retinal G protein-coupled receptor (RGR; MIM 600342) when the retinal pigment epithelium (RPE) is illuminated.

RDH10 Antibody (Center) - References

Bankovic, J., et al. Lung Cancer 67(2):151-159(2010)
Takahashi, Y., et al. Biochem. J. 419(1):113-122(2009)
Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009)