

**RDH10 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP4738c**

**Specification**

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**RDH10 Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q8IZV5</a>
Other Accession	<a href="#">Q80ZF7</a> , <a href="#">Q8VCH7</a> , <a href="#">Q8HZT6</a>
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  
IHC-P~~1:10~50  
FC~~1:10~50

**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**

**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

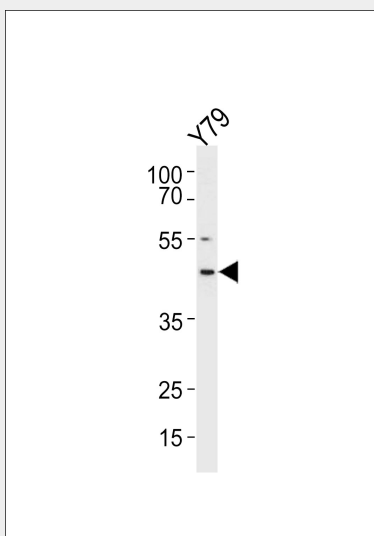
Detected in retina, kidney, liver, small intestine, placenta, lung, heart and skeletal muscle

## RDH10 Antibody (Center) - Protocols

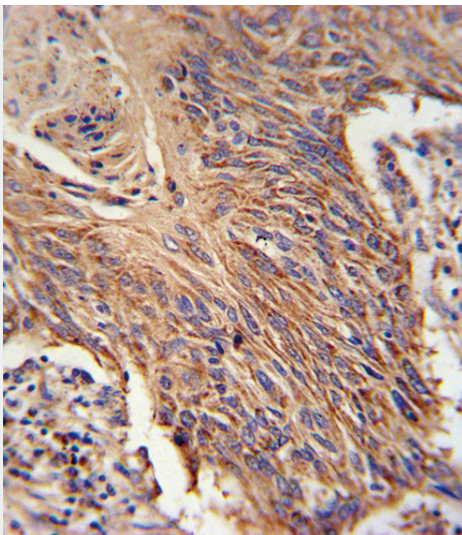
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

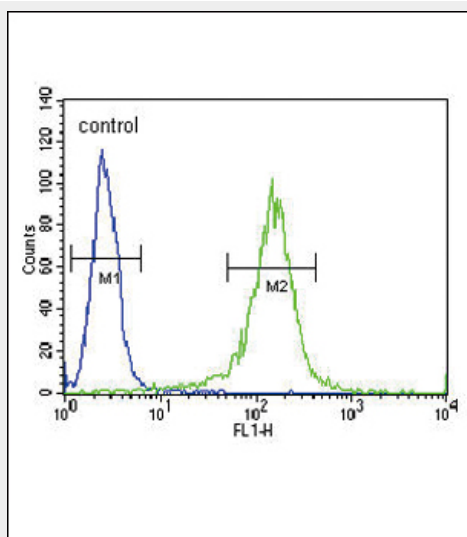
## RDH10 Antibody (Center) - Images



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).



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 play 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)