



Rabbit Anti-RDH13 antibody

SL8333R

Product Name:	RDH13
Chinese Name:	视黄醇脱氢酶13抗体
Alias:	RDH13; RDH13_HUMAN; Retinol dehydrogenase 13 (all trans and 9 cis); Retinol dehydrogenase 13 (all trans/9 cis); Retinol dehydrogenase 13.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	36kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RDH13:101-200/331
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	RDH13, also known as all-trans and 9-cis retinol dehydrogenase 13 or SDR7C3, is a 331 amino acid mitochondrial protein belonging to the short-chain dehydrogenases/reductases (SDR) family. Widely expressed, mostly in eye, pancreas, placenta and lung, RDH13 localizes on the outer side of the inner mitochondrial membrane. Related to microsomal retinoid oxidoreductase RDH11, RDH13 is considered to be a major enzyme among the RDH family of proteins. Catalytically

active, RDH13 recognizes retinoids as substrates and may function in retinoic acid production. RDH13 may function to protect the mitochondria against oxidative stress. Leber congenital amaurosis (LCA) type 3, an inherited autosomal recessive retinal disease, has been associated with defects of RDH13. LCA represents the most common genetic cause of congenital visual impairment in infants and children.

Function:

Does not exhibit retinol dehydrogenase (RDH) activity in vitro.

Tissue Specificity:

Expressed mostly in eye, pancreas, placenta and lung. In the retina, detected in the inner segment of the photoreceptor cells. Weak signals were observed in a small population of inner nuclear neurons and the inner plexiform layer.

Similarity:

Belongs to the short-chain dehydrogenases/reductases (SDR) family.

SWISS:

Q8NBN7

Gene ID:

112724

Database links:

[Entrez Gene: 112724](#)Human

[Entrez Gene: 108841](#)Mouse

[Entrez Gene: 361504](#)Rat

[SwissProt: Q8NBN7](#)Human

[SwissProt: Q8CEE7](#)Mouse

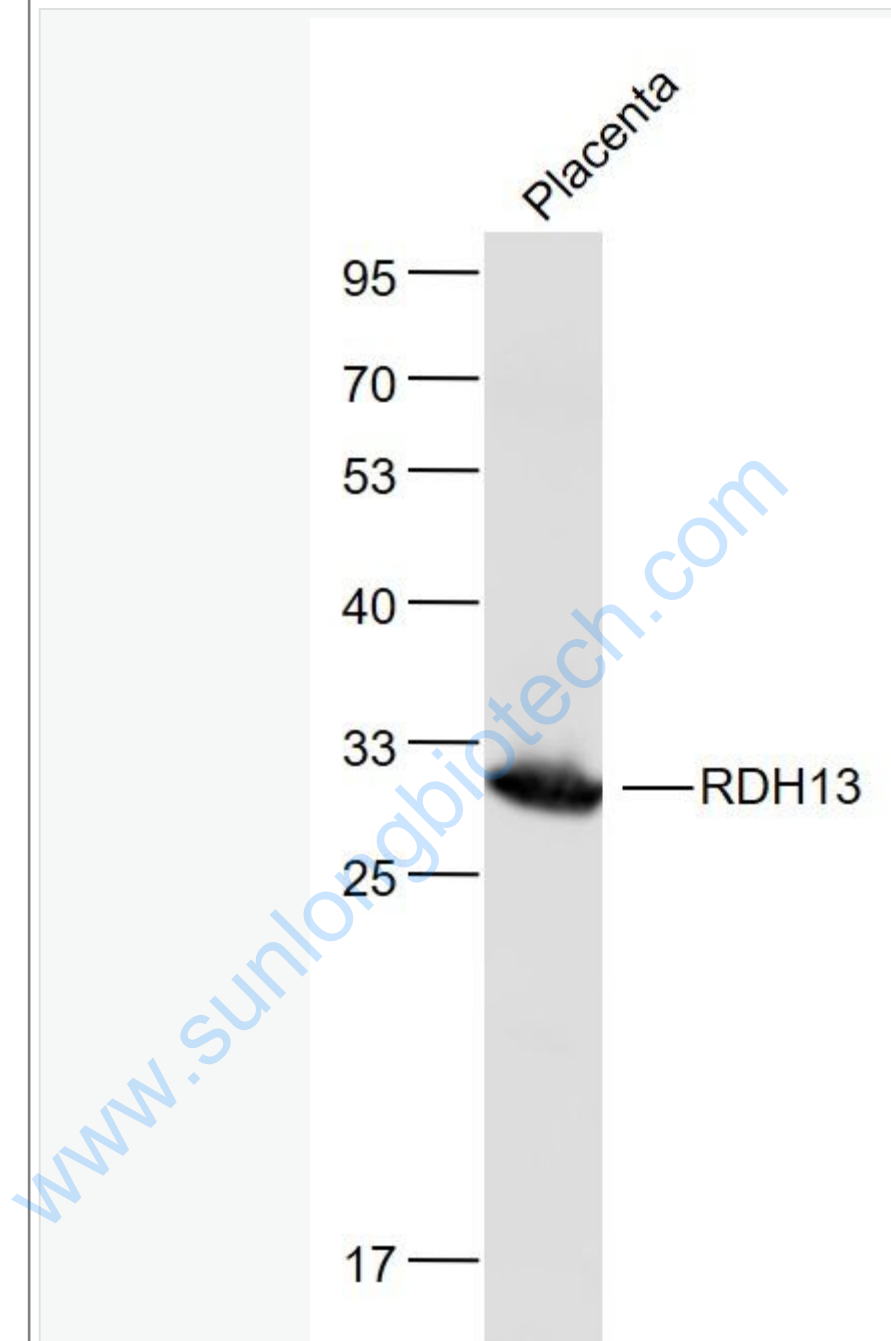
[Unigene: 327631](#)Human

[Unigene: 413106](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

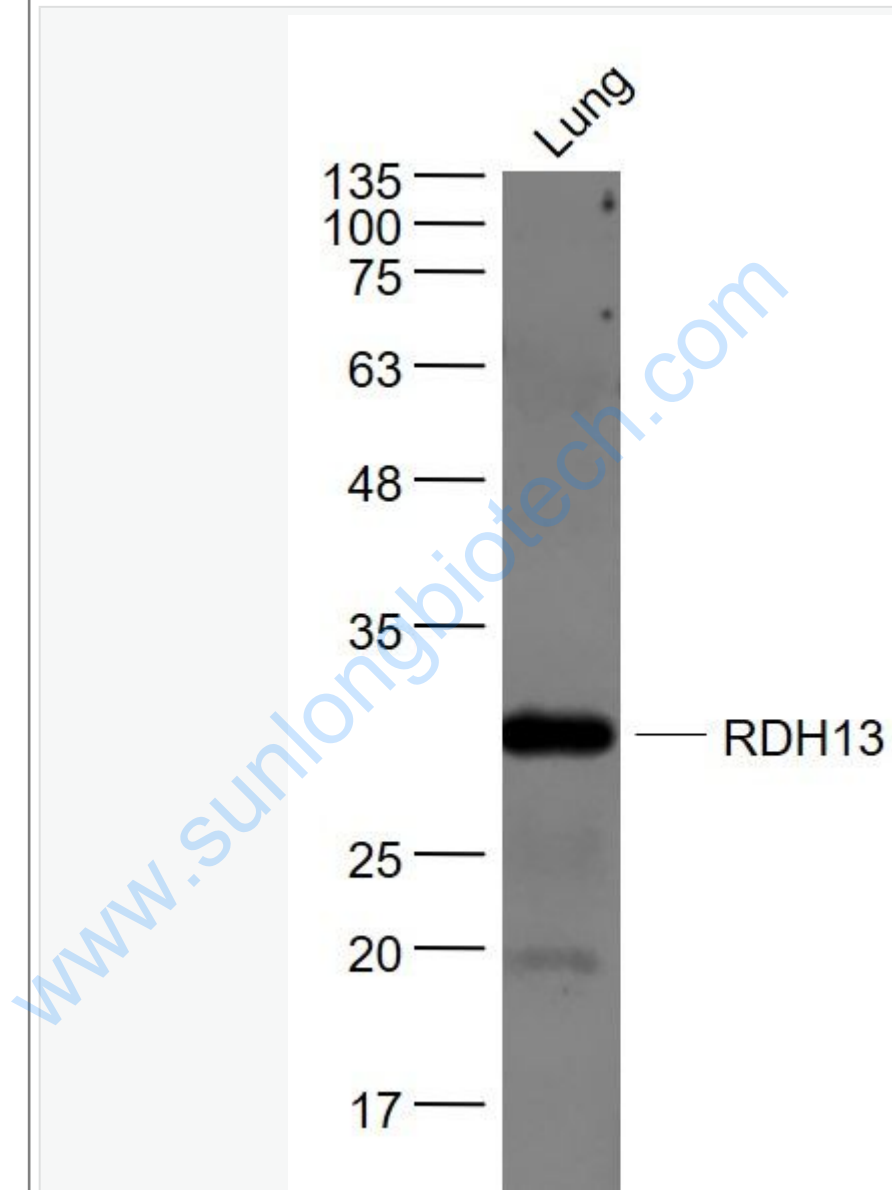
Placenta (Mouse) Lysate at 40 ug

Primary: Anti-RDH13 (SL8333R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36 kD

Observed band size: 29 kD



Sample:

Lung (Mouse) Lysate at 40 ug

Primary: Anti- RDH13 (SL8333R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

	<p>Predicted band size: 36 kD</p>
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	<p>Observed band size: 29 kD</p>
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