Recombinant Human RDH8 cell lysate

Cat. No. RDH8-1489HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Description	All-trans-retinol dehydrogenase (RDH8) is a visual cycle enzyme that reduces all-trans-retinal to all-trans-retinol in the presence of NADPH (Rattner et al., 2000 [PubMed 10753906]). It is a member of the short chain dehydrogenase/reductase family and is located in the outer segments of photoreceptors; hence it is also known as photoreceptor retinol dehydrogenase. It is important in the visual cycle by beginning the rhodopsin regeneration pathway by reducing all-trans-retinal, the product of bleached and hydrolysed rhodopsin (Rando, 2001 [PubMed 11710234]). This is a rate-limiting step in the visual cycle (Saari et al., 1998 [PubMed 9667000]).
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	RDH8?retinol dehydrogenase 8 (all-trans) [?Homo sapiens?(human)]
Official Symbol	RDH8

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Synonyms	RDH8; PRRDH; SDR28C2; retinol dehydrogenase 8 (all-trans); retinol dehydrogenase 8; short chain dehydrogenase/reductase family 28C, member 2; photoreceptor outer segment all-trans retinol dehydrogenase; NP_056540.2; EC 1.1.1.300
Gene ID	50700
mRNA Refseq	NM_015725
Protein Refseq	NP_056540
MIM	608575
UniProt ID	Q9NYR8
Chromosome Location	19p13.2
Pathway	Disease, organism-specific biosystem; Retinol metabolism, organism-specific biosystem; The canonical retinoid cycle in rods (twilight vision), organism-specific biosystem
Function	NADP-retinol dehydrogenase activity; estradiol 17-beta-dehydrogenase activity; retinol dehydrogenase activity

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