Recombinant Human TYR cell lysate

Cat. No. TYR-1869HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Description	The enzyme encoded by this gene catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. The enzyme has both tyrosine hydroxylase and dopa oxidase catalytic activities, and requires copper for function. Mutations in this gene result in oculocutaneous albinism, and nonpathologic polymorphisms result in skin pigmentation variation. The human genome contains a pseudogene similar to the 3 half of this gene.
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	TYR tyrosinase (oculocutaneous albinism IA) [Homo sapiens]
Official Symbol	TYR
Synonyms	TYR; tyrosinase (oculocutaneous albinism IA); tyrosinase; OCAIA; LB24-AB; SK29-AB; monophenol monooxygenase; tumor rejection antigen AB; CMM8; OCA1A;

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	SHEP3;
Gene ID	7299
mRNA Refseq	NM_000372
Protein Refseq	NP_000363
MIM	606933
UniProt ID	P14679
Chromosome Location	11q14-q21
Pathway	Catecholamine biosynthesis, tyrosine =>dopamine => noradrenaline => adrenaline, organism-specific biosystem; Catecholamine biosynthesis, tyrosine => dopamine => noradrenaline =>
Function	copper ion binding; metal ion binding; monooxygenase activity; monophenol monooxygenase activity; protein binding; protein heterodimerization activity; protein homodimerization activity;

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