

Recombinant Human UMOD cell lysate

Cat. No. UMOD-1885HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Description

This gene encodes uromodulin, the most abundant protein in normal urine. Its excretion in urine follows proteolytic cleavage of the ectodomain of its glycosyl phosphatidylinositol-anchored counterpart that is situated on the luminal cell surface of the loop of Henle. Uromodulin may act as a constitutive inhibitor of calcium crystallization in renal fluids. Excretion of uromodulin in urine may provide defense against urinary tract infections caused by uropathogenic bacteria. Defects in this gene are associated with the autosomal dominant renal disorders medullary cystic kidney disease-2 (MCKD2) and familial juvenile hyperuricemic nephropathy (FJHN). These disorders are characterized by juvenile onset of hyperuricemia, gout, and progressive renal failure. While several transcript variants may exist for this gene, the full-length natures of only two have been described to date. These two represent the major variants of this gene and encode the same isoform.

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

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Gene Name	UMOD uromodulin [Homo sapiens]
Official Symbol	UMOD
Synonyms	UMOD; uromodulin; uromodulin (uromucoid, Tamm Horsfall glycoprotein); Tamm Horsfall glycoprotein; uromucoid; Tamm-Horsfall glycoprotein; tamm-Horsfall urinary glycoprotein; uromodulin (uromucoid, Tamm-Horsfall glycoprotein); THP; FJHN; HNFJ; THGP; HNFJ1; MCKD2; ADMCKD2;
Gene ID	7369
mRNA Refseq	NM_001008389
Protein Refseq	NP_001008390
MIM	191845
UniProt ID	P07911
Chromosome Location	16p12.3
Function	calcium ion binding;