

Recombinant Human TFCEP2L1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TFCEP2L1-3236H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TFCEP2L1 MS Standard C13 and N15-labeled recombinant protein (NP_055368) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Transcription factor that facilitates establishment and maintenance of pluripotency in embryonic stem cells (ESCs). With KLF2, acts as the major effector of self-renewal that mediates induction of pluripotency downstream of LIF/STAT3 and Wnt/beta-catenin signaling. Required for normal duct development in the salivary gland and kidney. Coordinates the development of the kidney collecting ducts intercalated (IC) and principal (PC) cells, which regulate acid-base and salt-water homeostasis, respectively. Regulates the expression of IC genes including subunits B1 and D2 of the V-ATPase complex, OXGR1, CA12, SLC4A1, AQP6 and IC-specific transcription factor FOXI1. Regulates also the expression of JAG1 and subsequent notch signaling in the collecting duct. JAG1 initiates notch signaling in PCs but inhibits notch signaling in ICs. Acts as a transcriptional suppressor that may suppress UBP1-mediated transcriptional activation. Modulates the placental expression of CYP11A1.
Molecular Mass	54.4 kDa
AA Sequence	MLFWHTQPEHYNQHNHSGSYLRDVLALPIFKQEEPQLSPENEARLPPLQYVLCATS

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PAVKLHEETLTLYLNQGQSYEIRLLENRKLGDFFDLNTKYVKSIIIRVVFHDDRRLQYTEH
 QQLEGWRWSRPGDRILDIDIPLSVGILDPRASPTQLNAVEFLWDPAKRASAFIQVHCI
 STEFTPRKHGGGEGKVPFRVQIDTFKQNEGEYTEHLHSASCQIKVFKPKGADRKQK
 TDREKMEKRTAQEKEYQPSYETTILTECSPWPDVAYQVNSAPSPSYNGSPNSFGL
 GEGNASPTHPVEALPVGSDHLLPSASIQDAQQLHRNRFSQFCRLFASFSGADLLK
 MSRDDLVQICGPADGIRLFNAIKGRNVRPKMTIYVCQEQNRVPLQQKRDGSGDS
 NLSVYHAIFLEELTTLELIEKIANLYSISPQHIHRVYRQGPTGIHVVSNEMVQNFQDE
 SCFVLSTIKAESNDGYHIILKCGLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TFCP2L1 transcription factor CP2-like 1 [Homo sapiens (human)]

Official Symbol TFCP2L1

Synonyms TFCP2L1; transcription factor CP2-like 1; transcription factor CP2-like protein 1; CRTR1; LBP 9; CRTR-1; transcription factor LBP-9; CP2-related transcriptional repressor 1; LBP9; LBP-9;

Gene ID 29842

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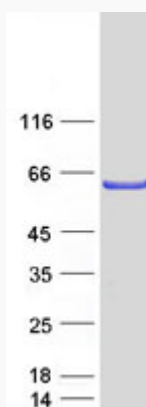
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Protein Refseq NP_055368

MIM 609785

UniProt ID Q9NZI6

SDS-PAGE



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