

Online Resources

Iron uptake by ZIP8 and ZIP14 in human proximal tubular epithelial cells

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Online Resource 1: Overview used primary antibodies

Protein	Primary antibody
TfR1	Thermo Fisher Scientific 136800, 1:500
ZIP8	ProteinTech 20459-1-AP, 1:500
ZIP14	Atlas Antibodies HPA016508, 1:500
DMT1	Abcam ab55735, 1:350
ZO-1	Invitrogen 402200, 1:100
EEA1	Abcam ab2900, 1:1000 (immunoblot and immunostaining with DMT1) Abcam ab70521, 1:200 (immunostaining with TfR1, ZIP8, ZIP14)
Na K ATPase	Koenderink lab, 1:2500 (Koenderink et al. 2003)
Total ferritin	Sigma Aldrich F5012, 1:250
Ferroportin	Abcam ab85370, 1:100
β-actin	Sigma Aldrich A5441, 1:100,000

DMT1, divalent metal transporter 1; EEA1, early endosome antigen 1; TfR1, transferrin receptor 1; ZO-1, Zona occludens 1.

Online Resource 2: Overview used quantitative PCR primers

Protein	Forward primer (5' - 3')	Reverse primer (5' - 3')
TfR1	CCCAGTTGCTGTCCTGATATAGA	TTGAGAAAACAATGCAAATGTG
ZIP8	TTATCTCTGTCCCCCTTTGTCTC	CGCCTTCGAAAGAACAGCAG
ZIP14	CTGGACCACATGATTCCTCAG	GAGTAGCGGACACCTCCAG
DMT1	ATGGCCCTCACATTTGGATA	CGAACATGCCCTTGAGTACC
Ferroportin	GGGTGCCTAGTGTCAT	CAGGTAGTCGGCCAAGGAT
HPRT	GCTATAAATTCTTTGCTGACCTGCTG	AATTACTTTTATGTCCCCTGTTGACTGG

DMT1, divalent metal transporter 1; HPRT, Hypoxanthine-guanine phosphoribosyltransferase; TfR1, transferrin receptor 1.

References

Koenderink JB, Geibel S, Grabsch E, De Pont JJ, Bamberg E, Friedrich T (2003) Electrophysiological analysis of the mutated Na,K-ATPase cation binding pocket *The Journal of biological chemistry* 278:51213-51222 doi:10.1074/jbc.M306384200