

Mouse Lipocalin-2 (mLCN2)



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
24	#P11672	16819
Background	Lipocalin-2, a member of the lipocalin family of proteins, was originally identified as a gelatinase-associated component of neutrophil secretory granules (1). Lipocalin-2 is involved in innate immunity, iron homeostasis, and apoptosis. Lipocalin-2 limits bacterial growth by binding to bacterial siderophores and sequestering iron (2-4). In mammalian cells, iron-loaded lipocalin-2 binds to its receptor, 24p3R, and is internalized, thereby releasing iron and increasing the intracellular iron concentration (5). Conversely, iron-free lipocalin-2 promotes apoptosis (5). Lipocalin-2 is also expressed in adipose tissue and promotes insulin resistance in cultured mouse adipocytes (6).	
Endotoxin	Less than 0.01 ng endotoxin/1 µg mLCN2.	
Purity	>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant mLCN2. All lots are greater than 98% pure.	
Source / Purification	Recombinant mouse LCN2 (mLCN2) Gln21-Asn200 (Accession #P11672) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The bioactivity of mLCN2 was determined in a BAF3 cell viability assay. The ED ₅₀ of each lot is between 0.5-4 µg/ml.	
Background References	<ol style="list-style-type: none"> 1. Kjeldsen, L. et al. (1994) <i>Blood</i> 83, 799-807. 2. Flo, T.H. et al. (2004) <i>Nature</i> 432, 917-21. 3. Goetz, D.H. et al. (2002) <i>Mol Cell</i> 10, 1033-43. 4. Bachman, M.A. et al. (2009) <i>PLoS Pathog</i> 5, e1000622. 5. Devireddy, L.R. et al. (2005) <i>Cell</i> 123, 1293-305. 6. Yan, Q.W. et al. (2007) <i>Diabetes</i> 56, 2533-40. 	

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