



Recombinant Protein Technical Manual
Recombinant Human LMCD1/Dyxin Protein (His Tag)
RPES3609

Product Data:

Product SKU: RPES3609

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9NZU5

Protein Information:

Molecular Mass: 44.0 kDa

AP Molecular Mass: 45 kDa

Tag: N,C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: LIM and cysteine-rich domains protein 1; LMCD1; Dyxin

Immunogen Information:

Sequence: Met 1-Ser365

Background:

LMCD1 is transcriptional cofactor which contains a cysteine-rich domain in the N-terminal region and 2 LIM domains in the C-terminal region. It also has several potential phosphorylation and N-myristoylation sites and a single potential N-glycosylation site. LMCD1 is expressed in many tissues with highest abundance in skeletal muscle. LMCD1 restricts GATA6 function by inhibiting DNA-binding, resulting in repression of GATA6 transcriptional activation of downstream target genes. It plays a critical role in the development of cardiac hypertrophy via activation of calcineurin/nuclear factor of activated T-cells signaling pathway.