

RPCB0897

## Product Information

<b>Product SKU:</b>	RPCB0897	<b>Gene ID:</b>	13380	<b>Size:</b>	10µg
<b>Tag:</b>	C-His	<b>Reactivity:</b>	Mouse		

## Additional Information

<b>Expression Host:</b>	HEK293 cells	<b>Swissprot:</b>	O54908
<b>Purity:</b>	> 90% by SDS-PAGE.		

## Protein Information

**Background:** Members of the dickkopf-related protein family (DKK-1, -2, -3, and -4) are secreted proteins with two cysteine-rich domains separated by a linker region. And DKK1 takes part in embryonic development through its inhibition of the WNT signaling pathway, binds to LRP6 with high affinity and prevents the Frizzled-Wnt-LRP6 complex formation in response to Wnts. DKK1 promotes LRP6 internalization and degradation when it forms a ternary complex with the cell surface receptor Kremen. DKK1 not only functions as a head inducer during development, but also regulates joint remodeling and bone formation, which suggests roles for DKK1 in the pathogenesis of rheumatoid arthritis and multiple myeloma. More recently research reported, DKK1 impacts eye development from a defined developmental time point on, and is critical for lens separation from the surface ectoderm via  $\beta$ -catenin mediated Pdgfra and E-cadherin expression.

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Mouse Dkk-1 Protein, tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

**Endotoxin:** < 1 EU/µg of the protein by LAL method.

**Formulation:** Supplied as a 0.22 µm filtered solution in 20mM Tris, 500mM NaCl, 10% glycerol, pH8.0.

**Storage:**

Store at -70°C. This product is stable at  $\leq -70^{\circ}\text{C}$  for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.