



Recombinant Protein Technical Manual

Recombinant Human DKK2 Protein (His&Fc Tag)

RPES2309

Product Data:

Product SKU: RPES2309

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q9UBU2

Protein Information:

Molecular Mass: 58.9 kDa

AP Molecular Mass: 55 kDa

Tag: N-Fc

Bio-activity:

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

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.2.

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

Application:

Synonyms: Dickkopf-related protein 2; Dickkopf-2; Dkk-2; hDkk-2

Immunogen Information:

Sequence: Asp251-Ile526

Background:

Dickkopf-related protein 2 (DKK2), is a member of the dickkopf family. DKK2 is secreted protein which contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. It can act as either an agonist or antagonist of Wnt/beta-catenin signaling, depending on the cellular context and the presence of the co-factor kremen 2. It antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease.