

DKK1

Reactivity: Human Mouse

Tested applications: WB IHC FC

Recommended Dilution: WB 1:200 - 1:500 IHC 1:50 - 1:100 FC 1:20 - 1:50

Calculated MW: 29kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human DKK1

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

t

Synonym:

DKK1;DKK-1;SK

Catalog #: A0567

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 22943

Isotype: IgG

Swiss Prot: O94907

Purity: Affinity purification

For research use only.

Background:

Dickkopf (DKK) family proteins consist of four members DKK1, DKK2, DKK3 and DKK4 that function as secreted Wnt antagonists by inhibiting Wnt coreceptors LRP5 and LRP6 (1,2). DKKs contain two cysteine-rich domains in which the positions of 10 cysteine residues are well conserved (3). Their expression is both temporally and spatially regulated during animal development (4). DKKs also bind with high affinity to transmembrane proteins Kremen1 and 2, which themselves also modulate Wnt signaling (5,6). DKK1 was initially identified as an inducer of head formation in *Xenopus* embryos (7) and plays an important role in the regulation of bone mass (8-10). Increased levels of DKK1 are found in the majority of lung cancers, esophageal squamous cell carcinomas, and hormone-resistant breast cancers (11,12), while DKK1 expression is decreased in malignant melanoma and colorectal cancers (13,14).

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