

ARG83032
Human Dkk1 ELISA KitPackage: 96 wells
Store at: 4°C

Summary

Product Description	ARG83032 Human Dkk1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Dkk1 in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Not cross-reacts with: Human IL2, IL4, IL5, IL6, IL8, IL10, IL12, Dkk4, Kremen1, Kremen2. Mouse Dkk4, Kremen1, Kremen2, LRP6. Rat Dkk4, Kremen1, Kremen2, LRP6.
Target Name	DKK1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.3 pg/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	DKK1, Dickkopf WNT Signaling Pathway Inhibitor 1, SK, DKK 1, Dickkopf Related Protein 1, Dickkopf (Xenopus Laevis) Homolog 1, Dickkopf 1 Homolog (Xenopus Laevis), Dickkopf Like Protein 1, Dickkopf 1 Homolog, Dickkopf 1 Like 3, Dickkopf 1, HDkk, 1, Dkk 1

Application Instructions

Assay Time	~ 4 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	DKK1
Gene Full Name	Dickkopf WNT Signaling Pathway Inhibitor 1

Background

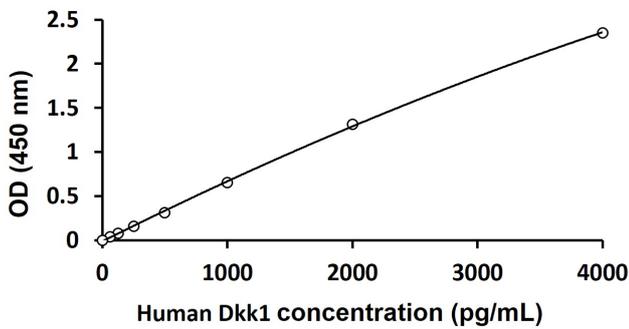
This gene encodes a member of the dickkopf family of proteins. Members of this family are secreted proteins characterized by two cysteine-rich domains that mediate protein-protein interactions. The encoded protein binds to the LRP6 co-receptor and inhibits beta-catenin-dependent Wnt signaling. This gene plays a role in embryonic development and may be important in bone formation in adults. Elevated expression of this gene has been observed in numerous human cancers and this protein may promote proliferation, invasion and growth in cancer cell lines. [provided by RefSeq, Sep 2017]

Function

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. Inhibits the pro-apoptotic function of KREMEN1 in a Wnt-independent manner, and has anti-apoptotic activity. [UniProt]

Highlight

Images



ARG83032 Human Dkk1 ELISA Kit standard curve image

ARG83032 Human Dkk1 ELISA Kit results of standard run with optical density reading at 450 nm