Human DKK3 antibody

Catalog Number: ATGA0476

PRODUCT INFORMATION

Catalog number
ATGA0476

Clone No.
AT103B5

Product type
Monoclonal Antibody

UnitProt No.
Q9UBP4

NCBI Accession No.
NP_001018067

Alternative Names
Dickkopf WNT signaling pathway inhibitor 3, Dickkopf-related protein 3, Dickkopf-3, Dkk-3, REIC, RIG, CRRL

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human DKK3 (22-350aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB

Usage
The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

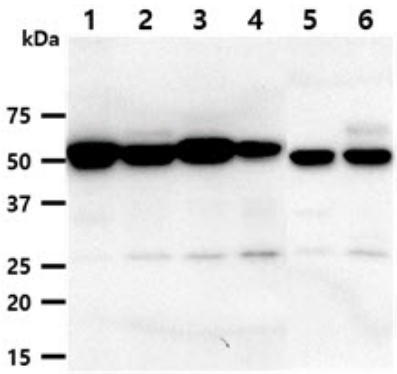
Dickkopf-related protein 3, also known as DKK3, is a member of the DKK protein family including Dkk-1, 2, 3 and -4. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. DKK3 is a 350 amino acid secreted glycoprotein that is composed of an N-terminal signal peptide and two conserved cysteine-rich domains, which are separated by a 12 amino acid linker region. The expression of this gene is decreased in a variety of cancer cell lines and it may function as a tumor suppressor gene.

General References

Cadigan K M., et al. (1997) Genes Dev. 11: 3286-3305.
Gilnka A., et al. (1998) Nature. 391: 357-362.

DATA

Western blot analysis (WB)



The cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human DKK3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: HepG2 cell lysate
Lane 3.: MCF7 cell lysate
Lane 4.: A549 cell lysate
Lane 5.: Mouse brain tissue lysate
Lane 6.: Mouse kidney tissue lysate