

Polyclonal Anti- Dkk3 Picoband™ Antibody

Catalog Number: PB9566

Description

Gene Name	dickkopf WNT signaling pathway inhibitor 3
Recommended Protein Name	Dickkopf-related protein 3
Lot No.	0951512Da166672
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human, mouse, rat
Immunogen	E. coli-derived human Dkk3 recombinant protein (Position: A22-D152). Human Dkk3 shares 85.5% amino acid (aa) sequence identity with mouse Dkk3.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu, Ms, Rat	-
Immunohistochemistry (Paraffin-embedded Section)	0.5-1µg/ml	Hu, Ms, Rat	By Heat
ELISA	0.1-0.5µg/ml	Hu	-

Tested Species: In-house tested species with positive results.

By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P).

Background

Dickkopf-related protein 3 is a protein that in humans is encoded by the DKK3 gene. This gene encodes a protein that is a member of the dickkopf family. The secreted protein contains two cysteine rich regions and is involved in embryonic development through its interactions with the Wnt signaling pathway. The expression of this gene is decreased in a variety of cancer cell lines and it may function as a tumor suppressor gene. Alternative splicing results in multiple transcript variants encoding the same protein.

Reference

1. "Entrez Gene: DKK3 dickkopf homolog 3 (Xenopus laevis)".
2. Krupnik VE, Sharp JD, Jiang C, Robison K, Chickering TW, Amaravadi L, Brown DE, Guyot D, Mays G, Leiby K, Chang B, Duong T, Goodearl AD, Gearing DP, Sokol SY, McCarthy SA (Dec 1999). "Functional and structural diversity of the human Dickkopf gene family". *Gene* 238 (2): 301–13.
3. Roman-Gomez J, Jimenez-Velasco A, Agirre X et al. (2004). "Transcriptional silencing of the Dickkopfs-3 (Dkk-3) gene by CpG hypermethylation in acute lymphoblastic leukaemia". *Br. J. Cancer* 91 (4): 707–13.