

DKK1 Rabbit mAb

Catalog No: #48979



Package Size: #48979-1 50ul #48979-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

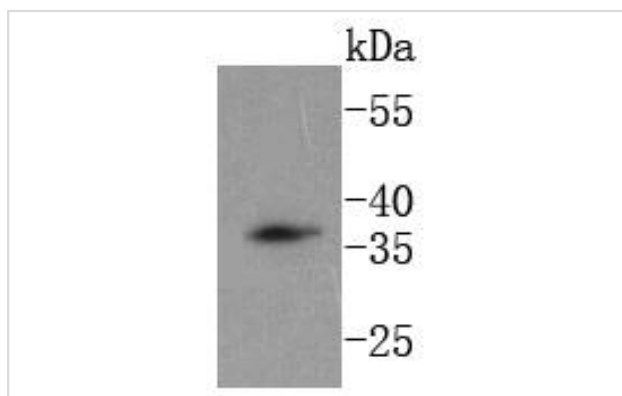
Description

Product Name	DKK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC06-86
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu, Rt
Immunogen Description	recombinant protein
Other Names	Dickkopf 1 antibody Dickkopf 1 homolog antibody Dickkopf 1 like antibody Dickkopf homolog 1 antibody Dickkopf like protein 1 antibody Dickkopf related protein 1 antibody Dickkopf WNT signaling pathway inhibitor 1 antibody Dickkopf-1 antibody Dickkopf-related protein 1 antibody DKK 1 antibody Dkk-1 antibody Dkk1 antibody DKK1_HUMAN antibody hDkk 1 antibody hDkk-1 antibody SK antibody
Accession No.	Swiss-Prot#:O94907
Calculated MW	38 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

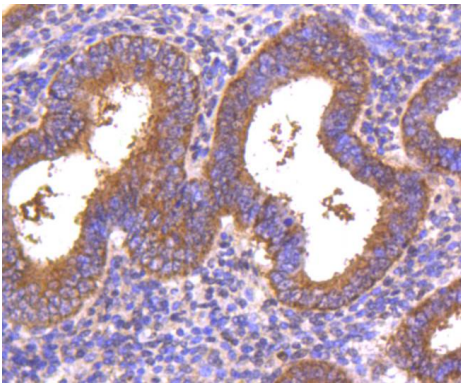
Application Details

WB: 1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:500FC: 1:50-1:100

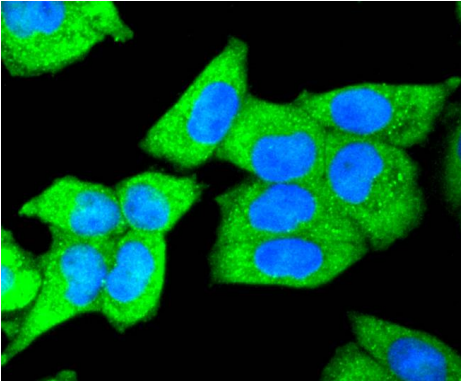
Images



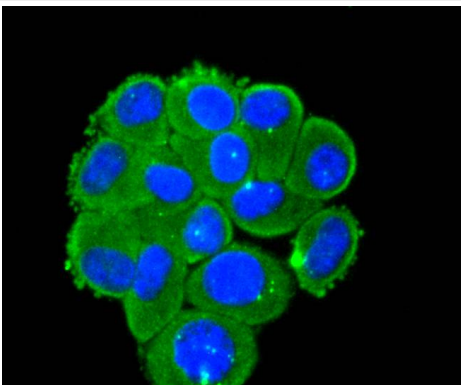
Western blot analysis of DKK1 on MCF-7 cells lysates using anti-DKK1 antibody at 1/1,000 dilution.



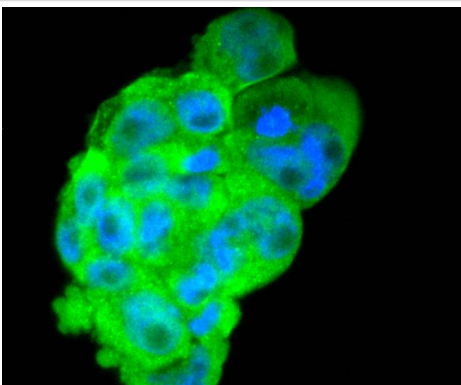
Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-DKK1 antibody. Counter stained with hematoxylin.



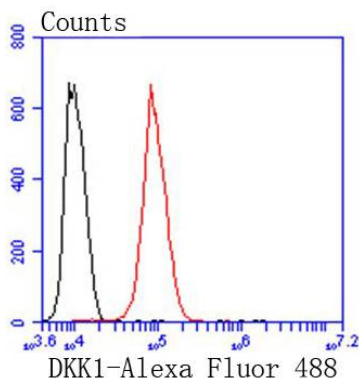
ICC staining DKK1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining DKK1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining DKK1 in NCCIT cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with DKK1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The Wnt genes are a group of well conserved, cysteine-rich secreted glycoproteins that are required for numerous developmental processes including embryogenesis, asymmetric cell division and central nervous system (CNS) patterning. Wnt association with the seven membrane spanning receptor frizzled activates dishevelled, which downregulates glycogen synthase kinase (GSK) through serine phosphorylation, causing the accumulation of b-catenin and subsequent regulation of developmentally significant Wnt target genes. The Dickkopf family of secreted inhibitors of Wnt signaling ensures proper morphological development by antagonizing different stages of the Wnt cascade. Dkk-1 (Dickkopf-1) acts upstream of b-catenin and dishevelled to inhibit Wnt signaling. Dkk-1 is a 266-amino acid (human), secreted protein that contains a 31-residue N-terminal signal peptide, 2 cysteine rich domains, and a putative carboxy terminal N-glycosylation site. Human Dkk-1 transcripts are abundantly present in fetal kidney, adult placenta and adult prostate. Putative cis regulatory elements upstream of the Dkk-1 start site include p53, Sp1, MyoD, STAT, Oct-1/2, C/EBP-a, C/EBP-b, GATA-1, GATA-2 and GATA-3.

References

1. Li Y et al. Minocycline protects against hepatic ischemia/reperfusion injury in a rat model. *Biomed Rep* 3:19-24 (2015).
2. Chen C et al. Elevated levels of Dickkopf-1 are associated with β -catenin accumulation and poor prognosis in patients with chondrosarcoma. *PLoS One* 9:e105414 (2014).

Published Papers

el et al., DKK1 affects survival of patients with head and neck squamous cell carcinoma by inducing resistance to radiotherapy and immunotherapy *InRadiother Oncol* 2023 Apr by Xinyu Ye et al., Jingwen Liu et al. PMID: 36690301, (2023)

[PMID:36690301](https://pubmed.ncbi.nlm.nih.gov/36690301/)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.