

# DKK3 Monoclonal antibody

Catalog Number: 66758-1-Ig 2 Publications

## Basic Information

<b>Catalog Number:</b> 66758-1-Ig	<b>GenBank Accession Number:</b> BC007660	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1200 µg/ml	<b>GeneID (NCBI):</b> 27122	<b>CloneNo.:</b> 4E6H6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9UBP4	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:150-1:600 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG2b	<b>Full Name:</b> dickkopf homolog 3 (Xenopus laevis)	
<b>Immunogen Catalog Number:</b> AG23615	<b>Calculated MW:</b> 38 kDa	
	<b>Observed MW:</b> 40 kDa, 50-55 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, MCF-7 cells, NCCIT cells IHC : human heart tissue, mouse brain tissue IF/ICC : HEK-293 cells,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> Human, Mouse, Rat, Pig	
<b>Cited Species:</b> human, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

DKK3, also named as REIC, belongs to the dickkopf family. It 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's disease. The adenovirus carrying REIC/Dkk-3 (Ad-REIC) exhibits a potent tumor-specific cell-killing function for various human cancers. It has also become evident that some human cancers are resistant to Ad-REIC-induced apoptosis. The DKK3 is a Glycosylation protein with MW about 55 kDa or 38-43 kDa.

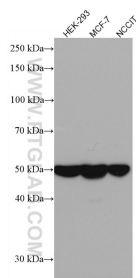
## Notable Publications

Author	Pubmed ID	Journal	Application
Renwu Hua	36284344	Reprod Biol Endocrinol	WB
Michael T H Ng	38374174	Nat Commun	WB, IF

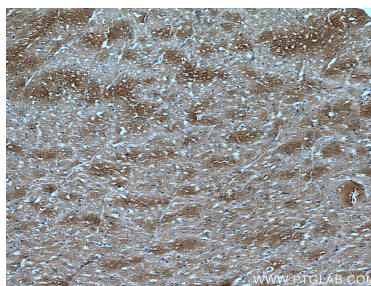
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

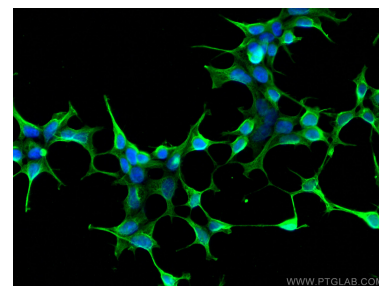
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66758-1-Ig (DKK3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 66758-1-Ig (DKK3 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using DKK3 antibody (66758-1-Ig, Clone: 4E6H6) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).