

For Research Use Only

DKK3 Monoclonal antibody

Catalog Number: 66758-1-Ig **3 Publications**



Basic Information

| | | |
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| Catalog Number: 66758-1-Ig | GenBank Accession Number: BC007660 | Purification Method: Protein A purification |
| Size: 150ul, Concentration: 1200 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 27122 | CloneNo.: 4E6H6 |
| Source: Mouse | UNIPROT ID: Q9UBP4 | Recommended Dilutions: WB: 1:1000-1:6000 IHC: 1:150-1:600 IF/ICC: 1:400-1:1600 |
| Isotype: IgG2b | Full Name: dickkopf homolog 3 (Xenopus laevis) | |
| Immunogen Catalog Number: AG23615 | Calculated MW: 38 kDa | |
| | Observed MW: 40 kDa, 50-55 kDa | |

Applications

| | |
|---|--|
| Tested Applications: WB, IHC, IF/ICC, ELISA | Positive Controls: WB : HEK-293 cells, MCF-7 cells, NCCIT cells IHC : human heart tissue, mouse brain tissue IF/ICC : HEK-293 cells, |
| Cited Applications: WB, IF | |
| Species Specificity: Human, Mouse, Rat, Pig | |
| Cited Species: human, mouse, pig | |

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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 |
| Shuang Xu | 40118226 | Brain Behav Immun | WB,IF |
| Michael T H Ng | 38374174 | Nat Commun | WB,IF |

Storage

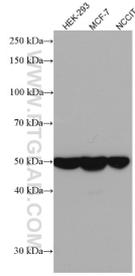
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

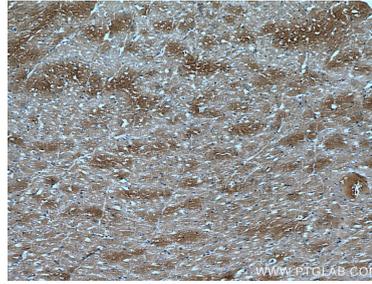
For technical support and original validation data for this product please contact:
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E: proteintech@ptglab.com
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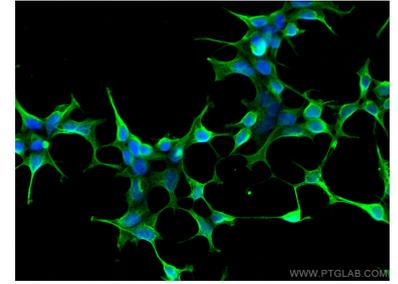
Selected Validation Data



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 Goat Anti-Mouse IgG(H+L).