

## DGK- $\delta$ (S66) polyclonal antibody

Catalog: BS2078

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Diacylglycerol kinases (DGKs) phosphorylate diacylglycerol (DAG) to produce phosphatidic acid. DAG and phosphatidic acid are lipids that act as second messengers in signaling cascades. DGK- $\alpha$  influences cell activation and secretion of lethal exosomes, which in turn control cell death. DGK- $\beta$  is abundant in restricted brain regions such as the caudate putamen and olfactory tubercle. DGK- $\gamma$  encodes full-length and truncated transcripts that are present in a range of human tissues, with greatest expression observed in retina. DGK- $\delta$  is most abundant in skeletal muscle. DGK- $\epsilon$  shows specificity for arachidonylcontaining diacylglycerol and is expressed predominantly in testis. DGK- $\theta$  is most abundant in the cerebellum and hippocampus. DGK- $\iota$  is present in brain and retina as a predominant transcript of more than 12 kb, including a long 3-prime untranslated region, with additional low abundance transcripts of 9.5 and 7.5 kb. DGK- $\eta$  is closely related to DGK- $\delta$ . DGK- $\zeta$  is most abundant in brain and muscle. DGKs have structural motifs that play regulatory roles, and these motifs form the basis for dividing the DGKs into five subtypes.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 135 kDa

### Swiss-Prot:

Q16760

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

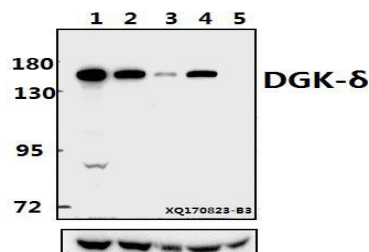
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

DGK- $\delta$  (S66) polyclonal antibody detects endogenous levels of DGK- $\delta$  protein.

### DATA:



Western blot (WB) analysis of DGK- $\delta$  (S66) pAb at 1:500 dilution

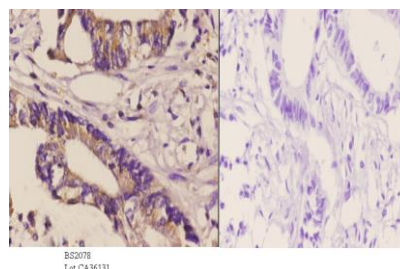
Lane1:A549 whole cell lysate(40ug)

Lane2:Hela whole cell lysate(40ug)

Lane3:A2780 whole cell lysate(40ug)

Lane4:PC12 whole cell lysate(40ug)

Lane5:3T3-L1 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of DGK- $\delta$  (S66) pAb in paraffin-embedded human Rectum carcinoma tissue at 1:50, showing cytoplasmic staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

### Note:

For research use only, not for use in diagnostic procedure.

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## PRODUCT DATA SHEET

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