

# DGKH Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55511

## Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	<a href="#">Q86XP1</a>
Reactivity	Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	134866

## Additional Information

Gene ID	160851
Other Names	Diacylglycerol kinase eta, DAG kinase eta, 2.7.1.107, Diglyceride kinase eta, DGK-eta, DGKH ( <a href="#">HGNC:2854</a> )
Dilution	Elisa=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ICC=1:100-500,
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

Name	DGKH ( <a href="#">HGNC:2854</a> )
Function	Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed: <a href="#">12810723</a> , PubMed: <a href="#">23949095</a> ). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (Probable) (PubMed: <a href="#">12810723</a> , PubMed: <a href="#">23949095</a> ). Plays a key role in promoting cell growth (PubMed: <a href="#">19710016</a> ). Activates the Ras/B-Raf/C-Raf/MEK/ERK signaling pathway induced by EGF (PubMed: <a href="#">19710016</a> ). Regulates the recruitment of RAF1 and BRAF from cytoplasm to membranes and their heterodimerization (PubMed: <a href="#">19710016</a> ).
Cellular Location	Cytoplasm. Cell membrane Note=Translocated from the cytoplasm to endosomes in response to stress stimuli (PubMed:12810723). Isoform 2 is rapidly relocated back to the cytoplasm upon removal of stress stimuli, whereas isoform 1 exhibits sustained endosomal association

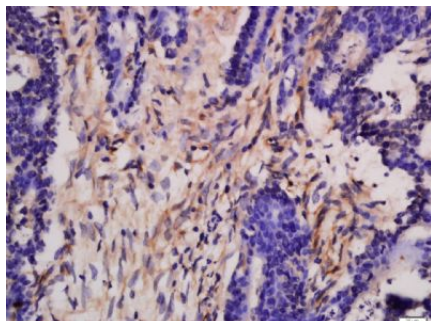
(PubMed:12810723). Translocates from the cytoplasm to the cell membrane in the presence of active GTP-bound form of HRAS (PubMed:19710016)

## Tissue Location

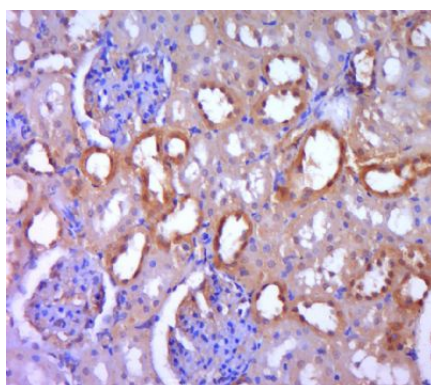
[Isoform 1]: Expressed only in testis, kidney and colon.

## Images

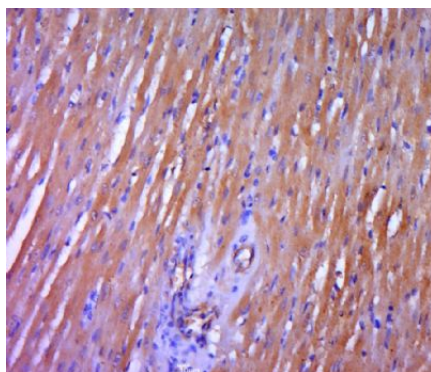
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Tissue/cell: human colon cancer; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-DGKH Polyclonal Antibody, Unconjugated(AP55511) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DGKH) Polyclonal Antibody, Unconjugated (AP55511) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DGKH) Polyclonal Antibody, Unconjugated (AP55511) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.