10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DGKH antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12617

Specification

DGKH antibody - middle region - Product Information

Application	**WB**
Primary Accession	Q86XP1
Other Accession	NM_178009, NP_821077
Reactivity	**Human, Horse, Dog**
Predicted	**Human, Horse, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**135kDa KDa**

DGKH antibody - middle region - Additional Information

Gene ID 160851

Alias Symbol	**DGKeta, DKFZp761I1510**

Other Names
Diacylglycerol kinase eta, DAG kinase eta, 2.7.1.107, Diglyceride kinase eta, DGK-eta, DGKH

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-DGKH antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
DGKH antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

DGKH antibody - middle region - Protein Information

Name DGKH (HGNC:2854)

Function
Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:12810723, PubMed:23949095). 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:12810723, PubMed:23949095). Plays a key role in promoting cell growth (PubMed:<a

href="http://www.uniprot.org/citations/19710016" target="_blank">19710016). Activates the Ras/B-Raf/C-Raf/MEK/ERK signaling pathway induced by EGF (PubMed:19710016). Regulates the recruitment of RAF1 and BRAF from cytoplasm to membranes and their heterodimerization (PubMed:19710016).

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)

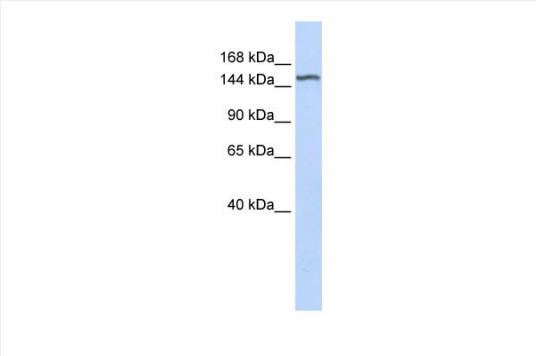
Tissue Location
[Isoform 1]: Expressed only in testis, kidney and colon.

DGKH antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DGKH antibody - middle region - Images



WB Suggested Anti-DGKH Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: Human Liver

DGKH antibody - middle region - References

Baum,A.E.,(2008)Mol.Psychiatry13(2),197-207ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.