

DGKH antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12616**Specification**

DGKH antibody - middle region - Product Information

Application	WB, IHC
Primary Accession	Q86XP1
Other Accession	NM_178009 , NP_821077
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rabbit, Zebrafish, Chicken, Horse, Bovine, Guinea Pig, 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: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

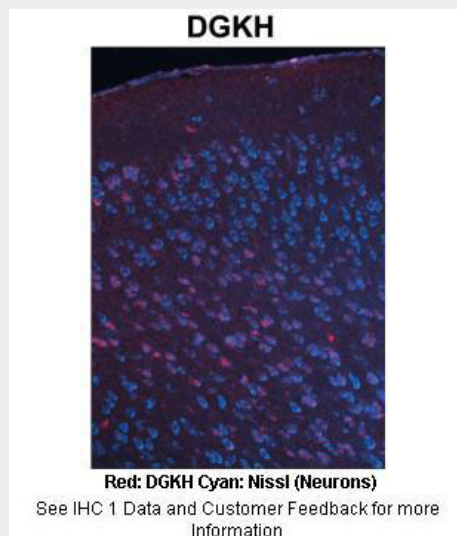
[Isoform 1]: Expressed only in testis, kidney and colon.

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 Cytometry](#)
- [Cell Culture](#)

DGKH antibody - middle region - Images

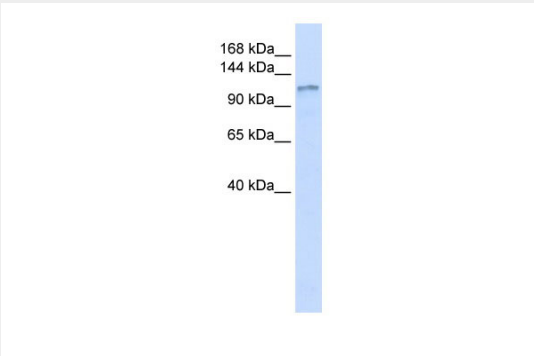


Sample Type : Adult mouse cortex

Primary Antibody Dilution : 1:500

Secondary Antibody : Anti-rabbit-Cy3 Secondary Antibody Dilution : 1:1000 Color/Signal Descriptions : Red: DGKH Cyan: Nissl (Neurons)

Gene Name : DGKH Submitted by : Joshua R. Sanes, Molecular and Cellular Biology, Harvard University, 52 Oxford Street, Room 335, Cambridge MA 02138, Phone: 617-496-8683, FAX: 617-495-0524, email: sanesj@mcb.harvard.edu



168 kDa
144 kDa
90 kDa
65 kDa
40 kDa

WB Suggested Anti-DGKH Antibody Titration: 0.2-1 μ g/ml

ELISA Titer: 1:1562500

Positive Control: Human heart

DGKH antibody - middle region - References

Baum, A.E., (2008) Mol. Psychiatry 13(2), 197-207 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.