

# GKAP Antibody

Catalog No: #48463



Package Size: #48463-1 50ul #48463-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

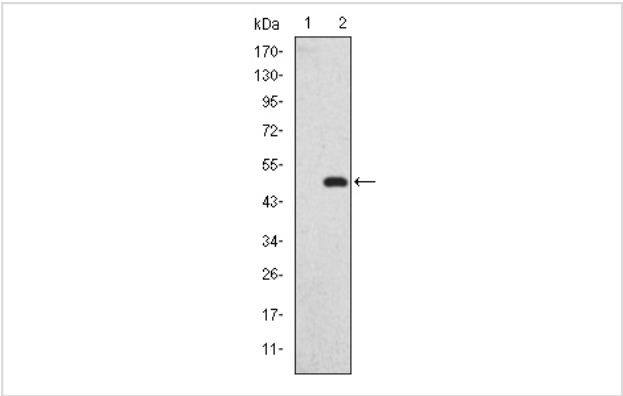
## Description

Product Name	GKAP Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	A3-G4
Purification	ProA affinity purified
Applications	WB,ICC,IHC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	cGMP dependent protein kinase anchoring protein 42kDa antibody cGMP dependent protein kinase anchoring protein of 42 kDa antibody cGMP-dependent protein kinase-anchoring protein of 42 kDa antibody FKSG21 antibody G kinase anchoring protein 1 antibody G kinase-anchoring protein 1 antibody gkap1 antibody GKAP1_HUMAN antibody GKAP42 antibody Protein kinase anchoring protein GKAP42 antibody
Accession No.	Swiss-Prot#:O14490
Uniprot	O14490
GeneID	9229;
Calculated MW	109 kDa
Formulation	1*TBS (pH7.4), 1%BSA, Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

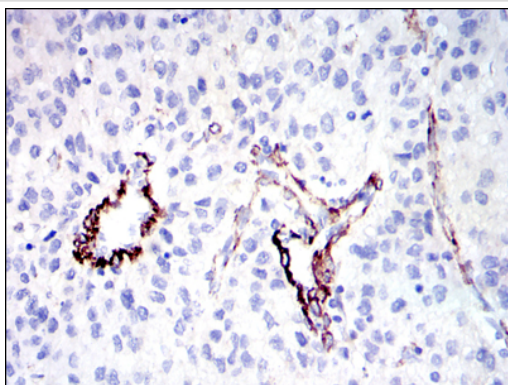
## Application Details

WB: 1:500-1:1,000IHC: 1:50-1:200ICC: 1:50-1:200

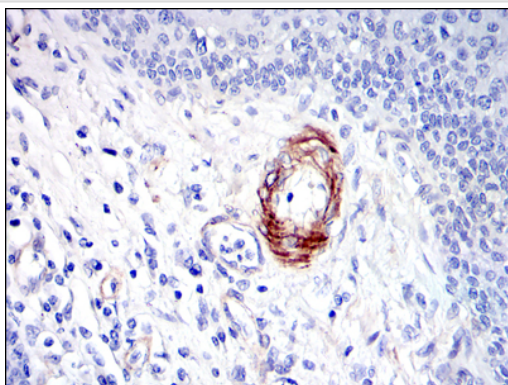
## Images



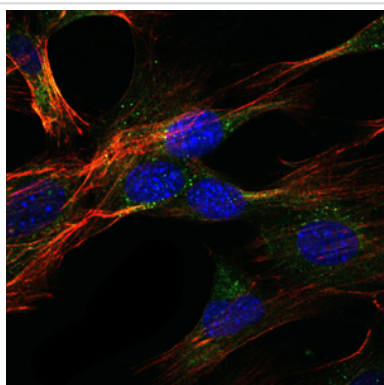
Western blot analysis of DLGAP1 on HEK293 (1) and DLGAP1-hlgGfc transfected HEK293 (2) cell lysate using anti- DLGAP1 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti- DLGAP1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human esophagus tissue using anti- DLGAP1 antibody. Counter stained with hematoxylin.



ICC staining DLGAP1 (green) and actin filaments (red) in NIH/3T3 cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

The neurotransmitter glutamate facilitates neuronal signalling at excitatory synapses. Glutamate is released from the presynaptic membrane into the synaptic cleft. Across the synaptic cleft glutamate binds to both ion channels and metabotropic glutamate receptors at the postsynapse, which expedite downstream signalling in the neuron. The postsynaptic density, a highly specialized matrix, which is attached to the postsynaptic membrane, controls this downstream signalling. The postsynaptic density also resets the synapse after each synaptic firing. It is composed of numerous proteins including a family of Discs large associated protein 1, 2, 3 and 4 (DLGAP1-4) that act as scaffold proteins in the postsynaptic density. They link the glutamate receptors in the postsynaptic membrane to other glutamate receptors, to signalling proteins and to components of the cytoskeleton. With the central localisation in the postsynapse, the DLGAP family seems to play a vital role in synaptic scaling by regulating the turnover of both ionotropic and metabotropic glutamate receptors in response to synaptic activity. DLGAP family has been directly linked to a variety of psychological and neurological disorders. In this review we focus on the direct and indirect role of DLGAP family on schizophrenia as well as other brain diseases.

## References

Note: This product is for in vitro research use only