

## Anti-GKAP Antibody (3C392)

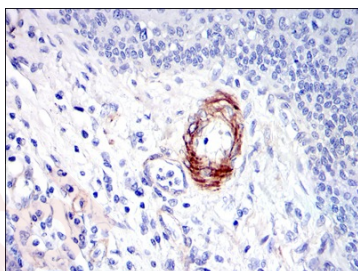
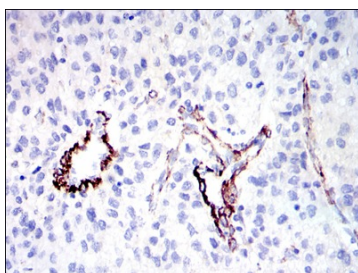
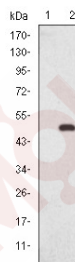
### Product Details

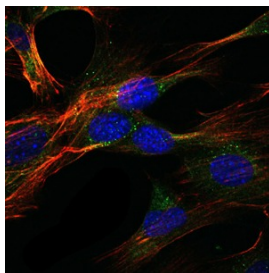
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 109 kDa.
Clone:	3C392
Purification:	ProA affinity purified

### Applications

Verified Activity:

1. 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.
2. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-DLGAP1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human esophagus tissue using anti-DLGAP1 antibody. Counter stained with hematoxylin.
4. 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.





Application: ICC,IHC,WB  
Recommended WB: 1:500-1000; IHC: 1:50-200; ICC: 1:50-200

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.  
Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein  
Uniprot ID: O14490  
Synonyms: GKAP1\_HUMAN;G kinase anchoring protein 1;FKSG21;gkap1;G kinase-anchoring protein 1; GKAP42;cGMP dependent protein kinase anchoring protein of 42 kDa;cGMP-dependent protein kinase-anchoring protein of 42 kDa;cGMP dependent protein kinase anchoring protein 42kDa; Protein kinase anchoring protein GKAP42

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### Research 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.

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