

## MDGA 1

Cat.No. 421 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

### Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H <sub>2</sub> O, then aliquot and store at -20°C until use.
Applications	<b>WB:</b> not tested yet <b>IP:</b> not tested yet <b>ICC:</b> not tested yet <b>IHC:</b> 1 : 500 <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 19 to 917 from mouse MDGA1 (UniProt Id: Q0PMG2)
Reactivity	Reacts with: mouse (Q0PMG2). Other species not tested yet.
Specificity	Specific for MDGA 1. (K.O. verified)

### TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

**MAM domain GPI anchor 1 and 2 proteins (MDGA1 and MDGA2)** are Ig superfamily adhesion molecules composed of six IG domains, a fibronectin III domain, a MAM domain, and a GPI anchor.

MDGAs are required for radial migration and positioning of cortical neurons making it a useful layer and area specific marker during neural development.

They play a role in the formation or maintenance of Neuroligin2 positive inhibitory synapses.

### Selected General References

MDGAs interact selectively with neuroligin-2 but not other neuroligins to regulate inhibitory synapse development. Lee K, Kim Y, Lee SJ, Qiang Y, Lee D, Lee HW, Kim H, Je HS, Südhof TC, Ko J  
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IgSF molecule MDGA1 is involved in radial migration and positioning of a subset of cortical upper-layer neurons. Ishikawa T, Gotoh N, Murayama C, Abe T, Iwashita M, Matsuzaki F, Suzuki T, Yamamoto T  
Developmental dynamics : an official publication of the American Association of Anatomists (2011) 240(1): 96-107.

Radial migration of superficial layer cortical neurons controlled by novel Ig cell adhesion molecule MDGA1. Takeuchi A, O'Leary DD  
The Journal of neuroscience : the official journal of the Society for Neuroscience (2006) 26(17): 4460-4.

MDGA1, an IgSF molecule containing a MAM domain, heterophilically associates with axon- and muscle-associated binding partners through distinct structural domains. Fujimura Y, Iwashita M, Matsuzaki F, Yamamoto T  
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