

For Research Use Only

# CoraLite® Plus 488-conjugated GAP43 Recombinant monoclonal antibody

Catalog Number: CL488-87287



## Basic Information

|                                                            |                                            |                                                               |
|------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| Catalog Number:<br>CL488-87287                             | GenBank Accession Number:<br>BC007936      | Purification Method:<br>Protein A purification                |
| Size:<br>100ul , Concentration: 1000 ug/ml by<br>Nanodrop; | GeneID (NCBI):<br>2596                     | CloneNo.:<br>252373G2                                         |
| Source:<br>Rabbit                                          | UNIPROT ID:<br>P17677                      | Recommended Dilutions:<br>IF-P: 1:50-1:500                    |
| Isotype:<br>IgG                                            | Full Name:<br>growth associated protein 43 | Excitation/Emission maxima<br>wavelengths:<br>493 nm / 522 nm |
| Immunogen Catalog Number:<br>AG9294                        | Calculated MW:<br>238 aa, 25 kDa           |                                                               |
|                                                            | Observed MW:<br>43-45 kDa                  |                                                               |

## Applications

|                                           |                                                  |
|-------------------------------------------|--------------------------------------------------|
| Tested Applications:<br>IF-P              | Positive Controls:<br>IF-P : mouse brain tissue, |
| Species Specificity:<br>human, mouse, rat |                                                  |

## Background Information

The neuronal growth-associated protein GAP43 is known as neuromodulin, B-50, P-57, F1, and pp46. Deficiency of GAP43 in mice results in death early in the postnatal period. GAP43 is one of the main substrates for protein kinase C in the brain. GAP43 is an intracellular growth-associated protein that appears to assist neuronal pathfinding and branching during development and regeneration and may contribute to presynaptic membrane changes in the adult, leading to neurotransmitter release, endocytosis, and synaptic vesicle recycling, long-term potentiation, spatial memory formation, and learning. The predicted molecular weight of about 25 kDa is much lower than the apparent observed molecular weight of 43 kDa on SDS-PAGE gels, and this occurs because the highly charged nature of GAP43 causes it to bind less than the average amount of SDS per amino acid, and because the protein has an elongated structure.

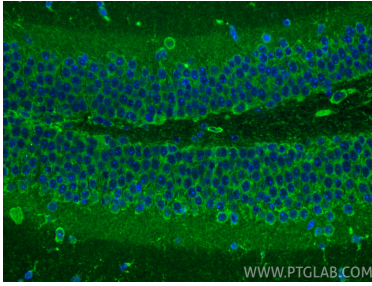
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using CoraLite® Plus 488 GAP43 antibody (CL488-87287, Clone: 252373G2 ) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).