



# Rabbit Anti-GAP43 monoclonal antibody, clone TD71-17 (DCABH-5087)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	GAP43
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	TD71-17
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC, IP, FC
<b>Molecular Weight</b>	48 kDa
<b>Cellular Localization</b>	Cell membrane, Cell projection, Cell junction.
<b>Positive Control</b>	SHG-44, HeLa, mouse brain tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

**Storage**

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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## BACKGROUND

**Introduction**

GAP-43 (growth associated protein 43, B-50, PP46, calmodulin-binding protein P-57, neuromodulin, neuron growth-associated protein 43, protein F1) is a crucial component for regenerative response in the nervous system. It is present at high levels in neuronal growth cones during development and axonal regeneration. GAP-43 is normally produced by neurons during developmental growth and axonal regeneration, but it is also expressed in specific regions of the normal adult nervous system. The neuron-specific Elav/Hu family member, HuD, interacts with and stabilizes GAP-43 mRNA in developing neurons and leads to increased levels of GAP-43 protein. Heterozygous GAP-43 knockout mice with GAP-43 levels reduced by one-half display significant memory impairments in cued conditioning or on tests of nociceptive or auditory perception.

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**Keywords**

Axonal membrane protein GAP 43; Axonal membrane protein GAP-43; B 50; Calmodulin binding protein P 57; F1; GAP 43; GAP43; Growth Associated Protein 43; Growth-associated protein 43; Nerve Growth Related Peptide; Nerve growth related peptide GAP43; NEUM\_HUMAN; Neural phosphoprotein B 50; Neural phosphoprotein B-50; Neuromodulin; Neuron growth associated protein 43; PP46; Protein F1; QtrA-11580; QtrA-13071 antibody

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