



# Rabbit Anti Human GAP43 monoclonal antibody, clone R81 (CABT-L0387Y)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	This antibody recognizes Human GAP43 in ELISA.
<b>Specificity</b>	This antibody recognizes Human GAP43 in ELISA
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	R81
<b>Purification</b>	Affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	<p>This antibody recognizes Human GAP43 in ELISA.</p> <p>Recommended pairs for sandwich immunoassay: (Capture - Detection) CABT-L0386Y - CABT-L0387Y</p> <p>Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.</p>
<b>Format</b>	Purified, Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µg

<b>Buffer</b>	PBS with 0.05% Sodium Azide
<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid freeze/thaw cycles.

## BACKGROUND

<b>Introduction</b>	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.
<b>Keywords</b>	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