

34-1038: Polyclonal Antibody to GAP43

Clonality :	Polyclonal
Application :	WB, IF/ICC, IHC
Reactivity :	Human, Rat, Mouse, Cow, Pig, Horse
Gene :	GAP43
Gene ID :	2596
Uniprot ID :	P17677
Format :	Conc. IgY prep.
Alternative Name :	Axonal membrane protein GAP-43, Growth-associated protein 43, Neural phosphoprotein B-50, pp46
Isotype :	Chicken, IgY
Immunogen Information :	C-terminal peptide of rat and mouse GAP43, which is KEDPEADQEHA, to which an N terminal Cys residue was added to allow chemical coupling to KLH

Product Info

Amount :	50 µl / 100 µl
Content :	Antibody is supplied as an aliquot of IgY preparation
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1,000-1:5,000. IF/IHC: 1:500-1:1,000

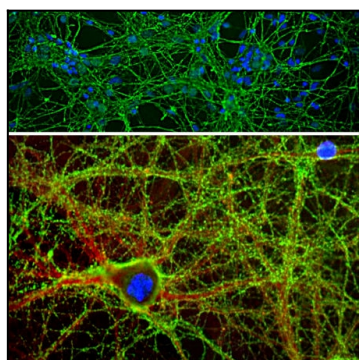


Figure-1: Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with chicken pAb to GAP43, (34-1038), dilution 1:2,000 in green, and costained with rabbit pAb to α -II spectrin, (34-1109), dilution 1:1,000 in red. The blue is DAPI staining of nuclear DNA. GAP43 antibody labels protein expressed in the axonal membrane and synapses of neuronal cells, while the spectrin antibody stains the submembraneous cytoskeleton of axons and dendrites.

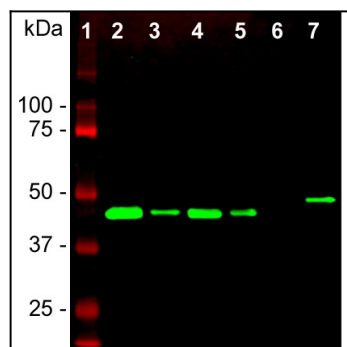


Figure-2: Western blot analysis of different tissue and cell lysates using chicken pAb to GAP43, (34-1038), dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] C6 cells, [7] SH-SY5Y cells. Single band at the 43kDa mark corresponds to GAP43. The GAP43 protein only is detected in the lysates of neuronal origin. C6 cells are a rat glioma cell line and do not express GAP43.