

Rabbit anti-Human GAP-43 Polyclonal Antibody | anti-GAP-43 antibody

Anti-GAP-43 Antibody, Rabbit Polyclonal

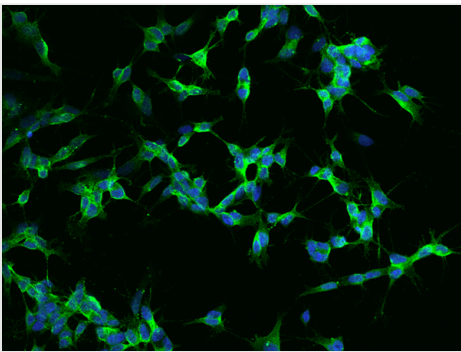
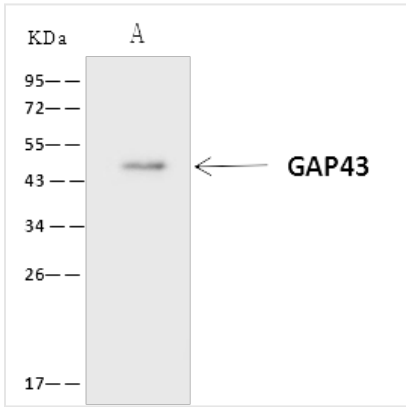
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA259043	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

GAP-43; Polyclonal Antibody; Anti-GAP-43 Antibody; Rabbit Polyclonal; growth associated protein 43; Anti-B-50 Antibody; Anti-PP46 Antibody; anti-GAP-43 antibody

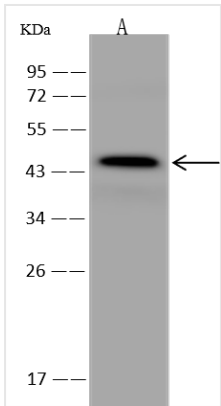
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human GAP-43
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-GAP-43 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived Human GAP43 fragment
Preparation	Produced in rabbits immunized with E coli-derived Human GAP43 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.



IF (Immunofluorescence)
Immunofluorescence staining of GAP43 in SH-SY5Y cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-Human GAP43 polyclonal antibody (dilution ratio 1:200) at 4? overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cell membrane.

IP (Immunoprecipitation)
GAP43 was immunoprecipitated using: Lane A: 0.5 mg SH-SY5Y Whole Cell Lysate 4 uL anti-GAP43 rabbit polyclonal antibody and 60 ug of Immnomagnetic beads Protein A/G. Primary antibody: Anti-GAP43 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 25 kDa Observed band size :45 kDa



WB (Western Blot)
Anti-GAP43 rabbit polyclonal antibody at 1:500 dilution Lane A: SH-SY5Y Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 25 kDa Observed band size: 45 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-GAP-43 antibody	Neuromodulin, also known as Axonal membrane protein GAP-43, Growth-associated protein 43, Neural phosphoprotein B-5, pp46 and GAP43, is a cell membrane protein which belongs to the neuromodulin family. Neuromodulin/GAP43 contains one IQ domain. Neuromodulin/GAP43 is associated with nerve growth. It is a major component of the motile "growth cones" that form the tips of elongating axons. Neuromodulin/GAP43 is involved in neurite outgrowth, a crucial process for the differentiation of neurons. The sudden infant death syndrome (SIDS) is the main cause of postneonatal infant death and its cause is still unknown. Neuromodulin/GAP43 is a marker of synaptic plasticity and is critical for normal development of the serotonergic innervation. Neuromodulin/GAP43 is a major cortical cytoskeleton-associated and calmodulin binding protein that is widely and abundantly expressed during development, maintained in selected brain structures in the adult, and reinduced during nerve regeneration. CAP23 and GAP43 are functionally related intrinsic determinants of anatomical plasticity. These proteins function by locally promoting subplasmalemmal actin cytoskeleton accumulation.
References	Frey, D. et al., 2000, J Cell Biol. 149 (7):1443-54. Caprini, M. et al., 2003, EMBO J. 22 (12):3004-14. Sawaguchi, T. et al., 2003, Early Hum Dev. 75 Suppl :S139-46. Kowara, R. et al., 2007, Biochem Biophys Res Commun 363 (1):190-3.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gap-43-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/259043>