KD-Validated Anti-Growth associated protein 43 Recombinant Rabbit Monoclonal Antibody

GenuIN BIOTECH
REAL MATTERS

Catalog #: 63163

Aliases

GAP43; Growth Associated Protein 43; Axonal Membrane Protein GAP-43; Neural Phosphoprotein B-50; Neuromodulin; GAP-43; B-50; PP46; Neuron Growth-Associated Protein 43; Nerve Growth-Related Peptide GAP43; Calmodulin-Binding Protein P-57; Protein F1; Growth-Associated Protein 43; Pp46

Background

Gene Name: GAP43
NCBI Gene Entry: 2596
UniProt Entry: P17677

Application Information

Molecular Weight: Predicted, 25 kDa, observed, 48 kDa
Clonality: Rabbit monoclonal antibody
Clone ID: 23GB1195
Species Reactivity: Human
Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC), Immunohistochemistry (IHC)

Immunogen

A synthesized peptide derived from human GAP43

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:50,000
Flow Cytometry (FCM): 1:2,000
Immunocytochemistry (IC): 1:100-1:1,000
Immunohistochemistry (IHC): 1:100-1:200

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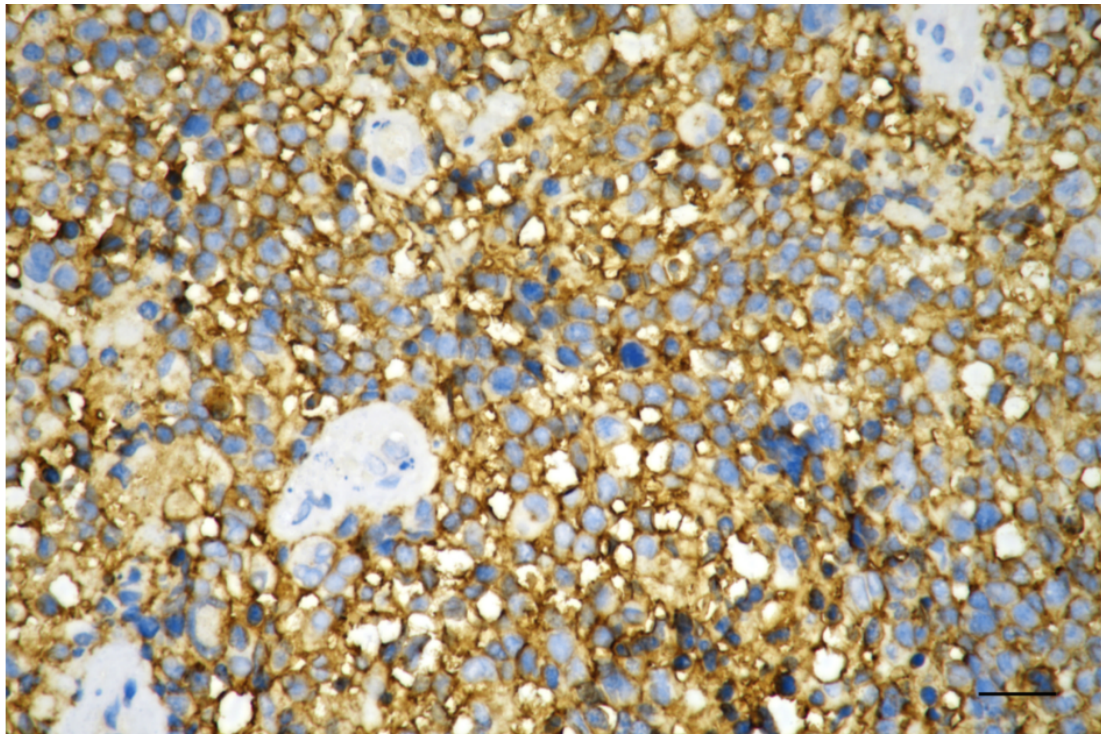**ORDERS**
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Note: This product is for research use only.

Validation Data

Immunohistochemistry was performed on paraffin-embedded human glioblastoma using anti-growth associated protein 43 antibody (Cat#63163, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.
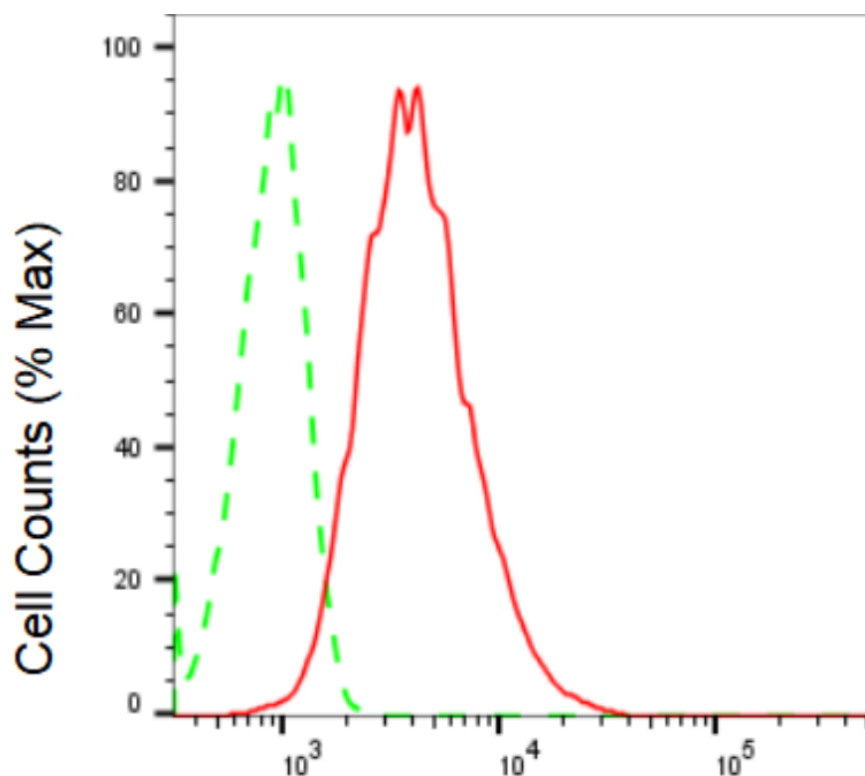
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Flow cytometric analysis of Growth associated protein 43 expression in HAP-1 cells using Growth associated protein 43 antibody (Cat#63163, 1:2,000). Green, isotype control; red, Growth associated protein 43.
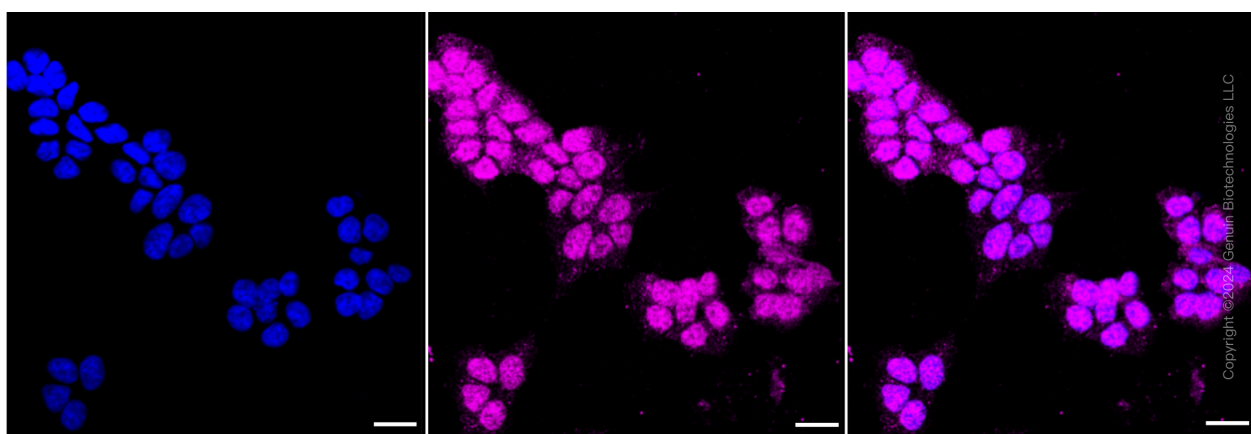
Immunocytochemical staining of HAP-1 cells with Growth associated protein 43 antibody (Cat#63163, 1:1,000). Nuclei were stained blue with DAPI; Growth associated protein 43 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μm.

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Western blotting analysis using anti-Growth associated protein 43 antibody (Cat#63163). Total cell lysates (30 μg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Growth associated protein 43 antibody (Cat#63163, 1:50,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).

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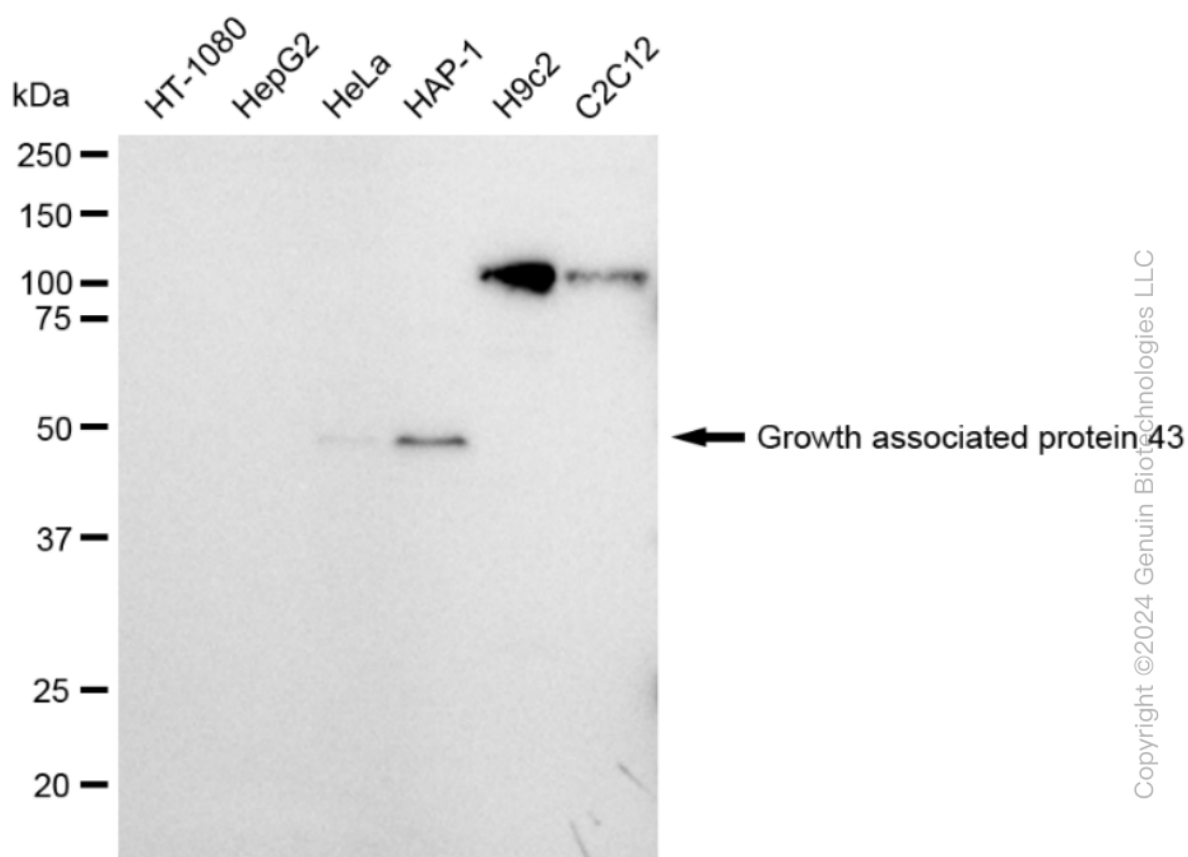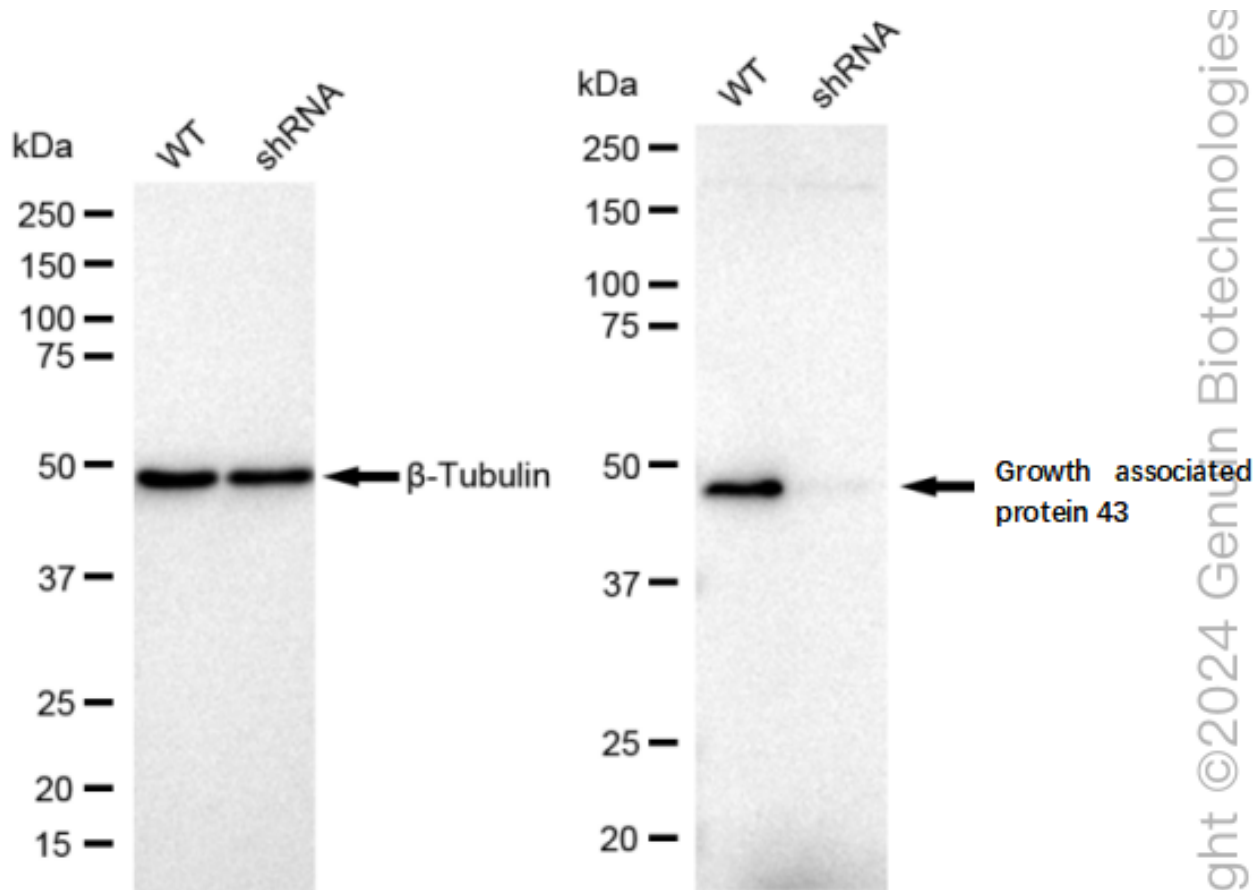SUPPORT@GENUINBIOTECH.COM
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Western blotting analysis using anti-Growth associated protein 43 antibody (Cat#63163). Growth associated protein 43 expression in wild type (WT) and growth associated protein 43 shRNA knockdown (KD) HeLa cells with 30 μg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Growth associated protein 43 antibody (Cat#63163, 1:50,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).
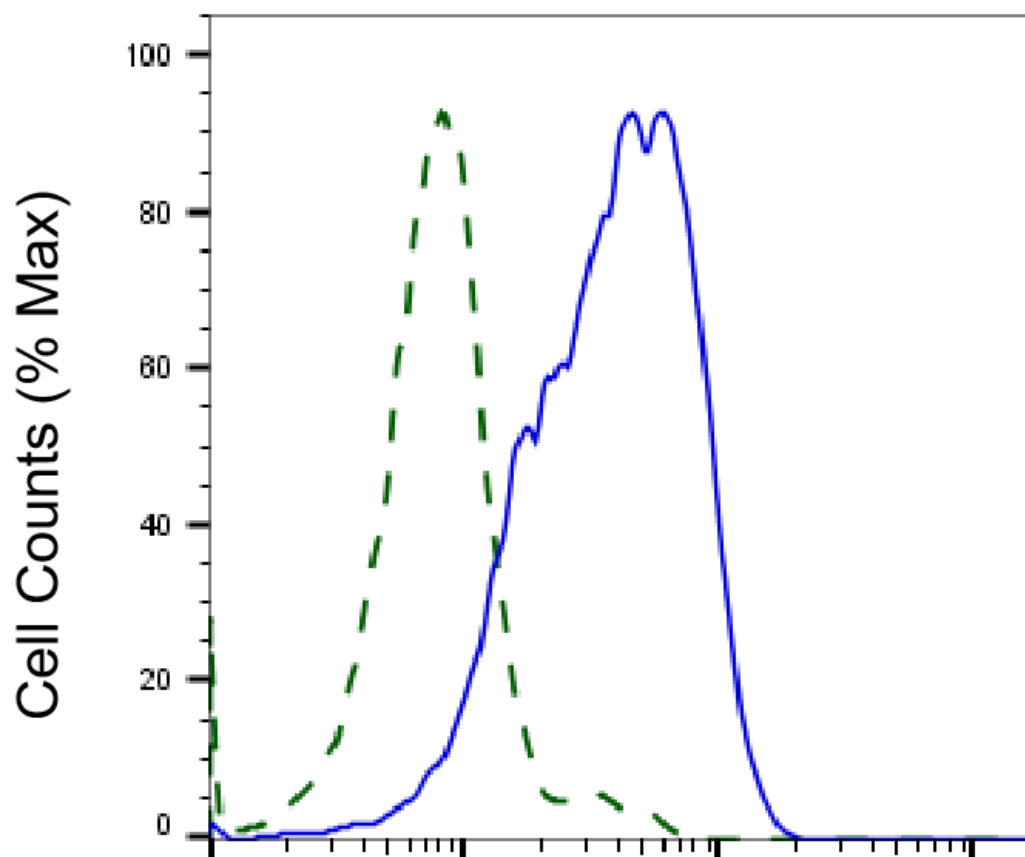
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Growth associated protein 43-Alexa Fluor® 647

Validation of Growth associated protein 43 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with anti-Growth associated protein 43 antibody (Cat#63163, 1:2,000) and analyzed using CytoFLEX.

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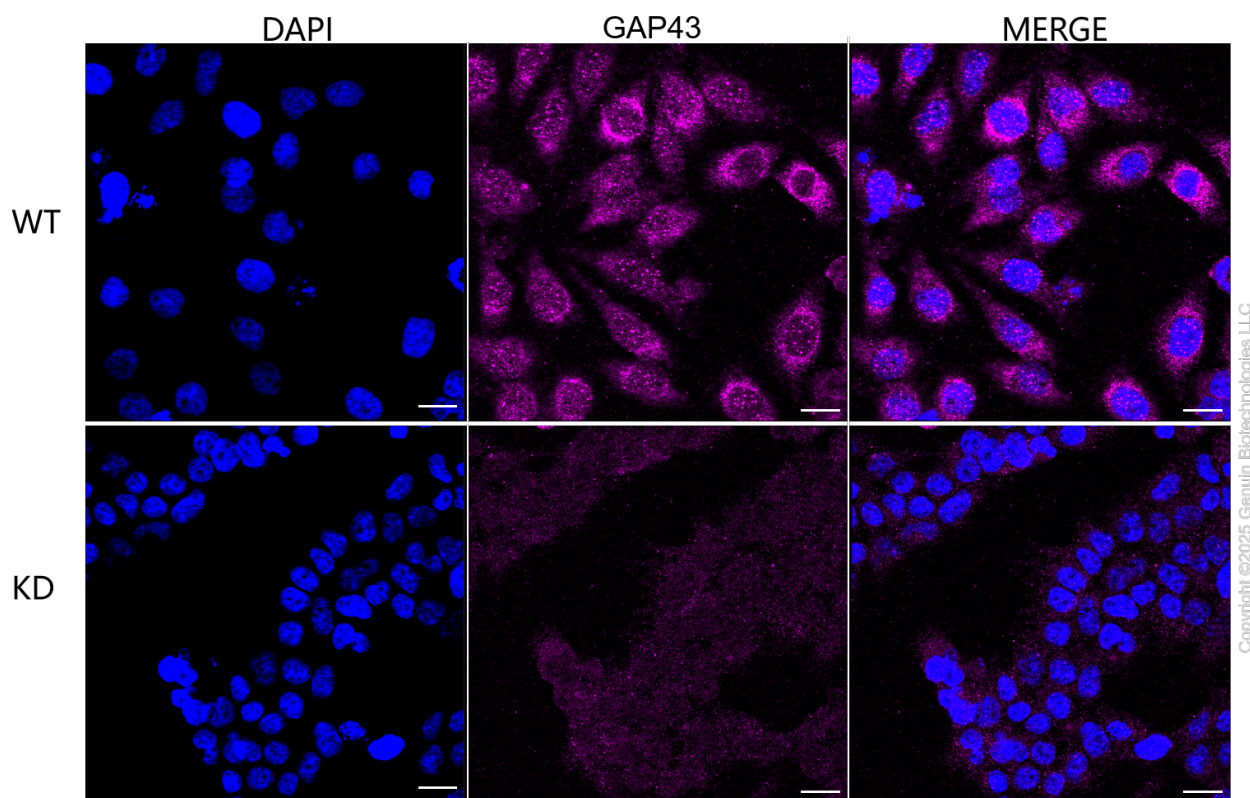
Immunocytochemical staining of HeLa cells using anti-GAP43 antibody (Cat#63163, 1:1,000), Top panel: wild-type (WT); Bottom panal: GAP43 shRNA knockdown (KD). Nuclei were stained blue with DAPI; GAP43 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm. Permeabilization: Triton.