

Anti-GAP43 (phospho-S41) Antibody

Catalog Number: A01868S41

About GAP43

Cleavable component of the cohesin complex, involved in chromosome cohesion during cell cycle, in DNA repair, and in apoptosis. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At metaphase-anaphase transition, this protein is cleaved by separase/ESPL1 and dissociates from chromatin, allowing sister chromatids to segregate. The cohesin complex may also play a role in spindle pole assembly during mitosis. Also plays a role in apoptosis, via its cleavage by caspase-3/CASP3 or caspase-7/CASP7 during early steps of apoptosis: the C-terminal 64 kDa cleavage product may act as a nuclear signal to initiate cytoplasmic events involved in the apoptotic pathway.

McKay M.J., Genomics 36:305-315(1996).

Sadano H., Biochem. Biophys. Res. Commun. 267:418-422(2000).

Nomura N., DNA Res. 1:223-229(1994).

Overview

Product Name	Anti-GAP43 (phospho-S41) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GAP43 (phospho-S41) Antibody catalog # A01868S41. Tested in WB,IHC,IF applications. This antibody reacts with Human,Mouse,Rat.
Application	IF, IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P17677

Technical Details

Immunogen	Synthesized peptide derived from internal of human RAD21.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:500-1:1000 IHC: 1:50-1:200 IF: 1:50-1:200</p>

Anti-GAP43 (phospho-S41) Antibody (A01868S41) Images

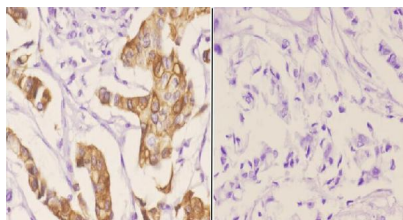


Figure 2. Immunohistochemistry validation of GAP43 using Anti-GAP43 (phospho-S41) Antibody (A01868S41).

Immunohistochemistry (IHC) analyzes of p-GAP43 (S41) pAb in paraffin-embedded human breast carcinoma tissue at 1:50, showing cell membrane staining. Negative control (the right) Using PBS instead of primary antibody

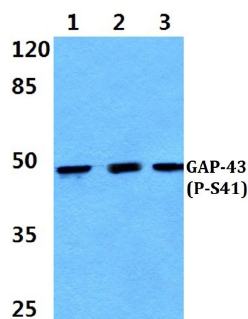


Figure 1. Western blotting validation for Anti-GAP43 (phospho-S41) Antibody A01868S41

Western blot (WB) analysis of p-GAP-43 (S41) polyclonal antibody at 1:500 dilution
Lane1: Hela cell lysate treated with PMA(100nM)

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