Phospho G3BP1 (Ser232) Antibody

rev 12/19

CATALOG NO.: **A1972-100 (100 µl)**

BACKGROUND DESCRIPTION: This gene encodes one of the DNA-unwinding enzymes which prefers partially unwound 3'-tailed substrates and can also unwind partial RNA/DNA and RNA/RNA duplexes in an ATP-dependent fashion. This enzyme is a member of the heterogeneous nuclear RNA-binding proteins and is also an element of the Ras signal transduction pathway. It binds specifically to the Ras-GTPase-activating protein by associating with its SH3 domain. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.

ALTERNATE NAMES: G3BP; Ras GTPase-activating protein-binding protein 1; G3BP-1; ATP-dependent DNA helicase VIII; hDH VIII; GAP SH3 domain-binding protein 1

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: KLH-conjugated synthetic peptide targeting a sequence within the center region of human G3BP1

MOLECULAR WEIGHT: 55 kDa

PURIFICATION: Affinity purified

FORM: Liquid

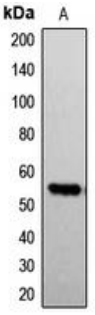
FORMULATION: In 0.42% Potassium phosphate; 0.87% NaCl; pH 7.3; 30% glycerol; and 0.01% sodium azide

SPECIES REACTIVITY: Human

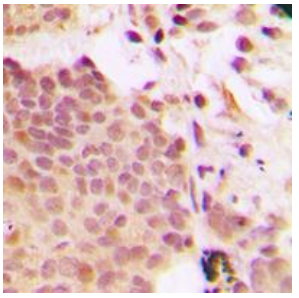
STORAGE CONDITIONS: Store at -20ºC. Avoid freeze / thaw cycles

APPLICATIONS AND USAGE: WB 1:500 - 1:1000, IHC 1:100 - 1:200, IF 1:100 - 1:500

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of phospho G3BP1 (Ser232) expression in A549 (A) whole cell lysates.



Immunohistochemical analysis of phospho G3BP1 (Ser232) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0), then incubated with the antibody at RT and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with hematoxylin and mounted with DPX.

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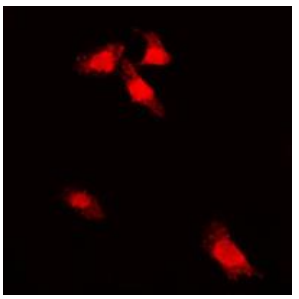

Immunofluorescent analysis of phospho G3BP1 (Ser232) staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at RT. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at RT in the dark. DAPI was used to stain the cell nuclei (blue).

RELATED PRODUCTS:

SIRT2 Antibody (6138)
Phospho-Cdk1/2/3 (Thr14) Antibody (A1260)
G3BP Antibody (3619)
Anti-Phospho-EGFR (Tyr1173) Rabbit Monoclonal Antibody (A1593)

FOR RESEARCH USE ONLY! Not to be used on humans.