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35-1080: Polyclonal Antibody to G3BP-1 (Phospho-Ser232)

Clonality: Polyclonal
Application: WB,IHC,IF
Reactivity: Human
Gene: G3BP1
Gene ID: 10146
Uniprot ID: Q13283
Format: Purified

Alternative Name: G3BP, GAP SH3-domain binding protein 1

Isotype: Rabbit IgG

Immunogen Information: Peptide sequence around phosphorylation site of serine 232 (S-S-S(p)-P-A) derived from

Human G3BP-1.

Description

May be a regulated effector of stress granule assembly. Phosphorylation-dependent sequence-specific endoribonuclease in vitro. Cleaves exclusively between cytosine and adenine and cleaves MYC mRNA preferentially at the 3'-UTR. ATP- and magnesium-dependent helicase. Unwinds preferentially partial DNA and RNA duplexes having a 17 bp annealed portion and either a hanging 3' tail or hanging tails at both 5'- and 3'-ends. Unwinds DNA/DNA, RNA/DNA, and RNA/RNA substrates with comparable efficiency. Acts unidirectionally by moving in the 5' to 3' direction along the bound single-stranded DNA.

Product Info

Amount : 50 μl / 100 μl

Content: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl, 0.02% sodium azide and 50% glycerol.

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

Predicted MW: 60kd, Western blotting: $1:500 \sim 1:1000$, Immunohistochemistry: $1:50 \sim 1:100$, Immunofluorescence: $1:100 \sim 1:200$

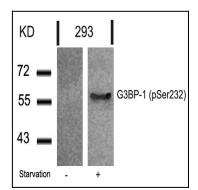


Figure 1: Western blot analysis of extracts from 293 cells untreated or treated with starvation using G3BP-1(Phospho-Ser232) Antibody 35-1080 .



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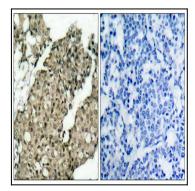


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using G3BP-1(Phospho-Ser232) Antibody 35-1080 (left) or the same antibody preincubated with blocking peptide(right).

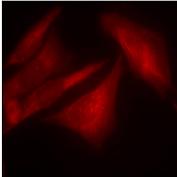


Figure 3: Immunofluorescence staining of methanol-fixed Hela cells using G3BP-1(Phospho-Ser232) Antibody 35-1080.