bs-0031R **[Primary Antibody]**

BTG2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7832 **SWISS:** P78543

Target: BTG2

Immunogen: KLH conjugated synthetic peptide derived from human BTG2: 31-110/158.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: BTG2 is a member of the BTG/Tob family. This family has structurally related proteins that appear to have antiproliferative properties. BTG2 is involved in the regulation of the G1/S transition of the cell cycle. It modulates transcription regulation mediated by ESR1(referenced from Entrez Gene). BTG2 expression is induced in vivo during neurogenesis, and the gene is transiently expressed in vitro in rat pheochromocytoma PC12 cells after induction of neuronal differentiation by addition of nerve growth factor (NGF); suggesting that BTG2 is functionally significant during the neuronal differentiation process (PMID: 12360398).

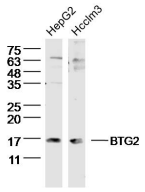
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, GuineaPig)

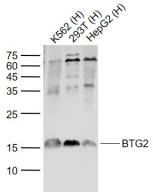
Predicted MW.: 17 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: HepG2 (human)cell Lysate at 40 ug Hcclm3 (human)cell Lysate at 40 ug Primary: Anti- BTG2 (bs-0031R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17kD Observed band size: 17 kD



Sample: Lane 1: K562 (Human) Cell Lysate at 30 ug Lane 2: 293T (Human) Cell Lysate at 30 ug Lane 3: HepG2 (Human) Cell Lysate at 30 ug Primary: Anti-BTG2 (bs-0031R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kD Observed band size: 16 kD

SELECTED CITATIONS

- **[IF=7.4]** Liu Jinpeng. et al. miR-92b-3p protects retinal tissues against DNA damage and apoptosis by targeting BTG2 in experimental myopia. J TRANSL MED. 2024 Dec;22(1):1-15 WB,IF ;Pig. 38807184
- **[IF=1.99]** Qu D et al. ATF3 mRNA, but not BTG2, as a possible marker for vital reaction of skin contusion. Forensic Sci Int. 2019 Sep 12;303:109937. WB ;Mouse. 31546162
- **[IF=2.1]** Pan Binhui. et al. Deciphering the molecular nexus of BTG2 in periodontitis and diabetic kidney disease. BMC MED GENOMICS. 2024 Dec;17(1):1-14 IF ;Mouse. 38831322