



## Rabbit Anti-BTG2 antibody

SL0031R

<b>Product Name:</b>	BTG2
<b>Chinese Name:</b>	B细胞迁移基因2抗体
<b>Alias:</b>	BTG2_HUMAN; Protein BTG2; BTG family member 2; NGF-inducible anti-proliferative protein PC3; pheochromacytoma cell-3; nerve growth factor-inducible anti-proliferative; B-cell translocation gene 2; BTG2; TIS21; PC3; TIS21.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Rabbit,Guinea Pig,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	17kDa
<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human BTG2:31-110/158
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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).

**Function:**

Anti-proliferative protein; the function is mediated by association with deadenylase subunits of the CCR4-NOT complex. Activates mRNA deadenylation in a CNOT6 and CNOT7-dependent manner. In vitro can inhibit deadenylase activity of CNOT7 and CNOT8. Involved in cell cycle regulation. Could be involved in the growth arrest and differentiation of the neuronal precursors. Modulates transcription regulation mediated by ESR1. Involved in mitochondrial depolarization and neurite outgrowth.

**Subunit:**

Interacts with PRKCABP. Interacts with CNOT7 and CNOT8; indicative for an association with the CCR4-NOT complex. Interacts with PIN1, inducing mitochondrial depolarization.

**Post-translational modifications:**

Phosphorylated at Ser-147 by MAPK1/ERK2 and MAPK3/ERK1, and at Ser-149 by MAPK14, leading to PIN1-binding and mitochondrial depolarization.

**Similarity:**

Belongs to the BTG family.

**SWISS:**

P78543

**Gene ID:**

7832

**Database links:**

[Entrez Gene: 7832](#)Human

[Omim: 601597](#)Human

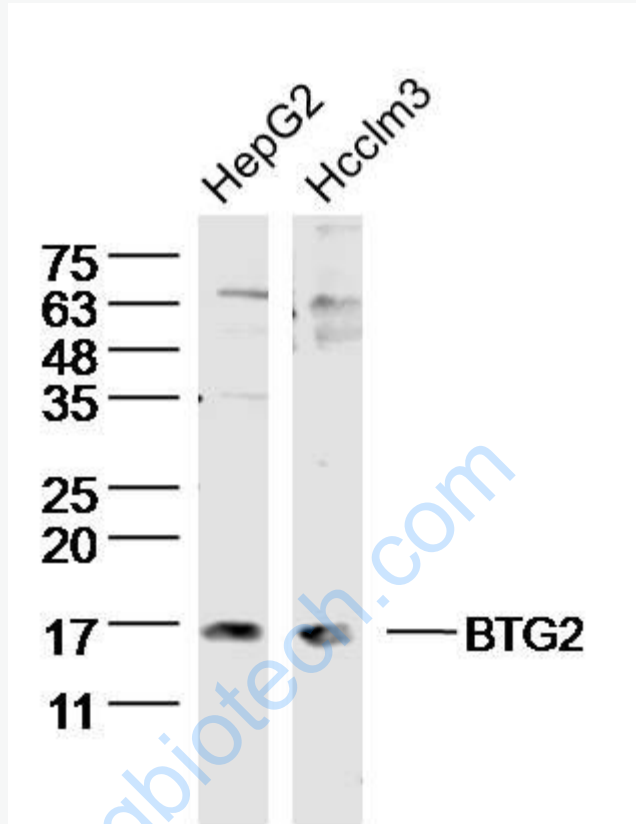
[SwissProt: P78543](#)Human

[Unigene: 519162](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

HepG2 (human)cell Lysate at 40 ug

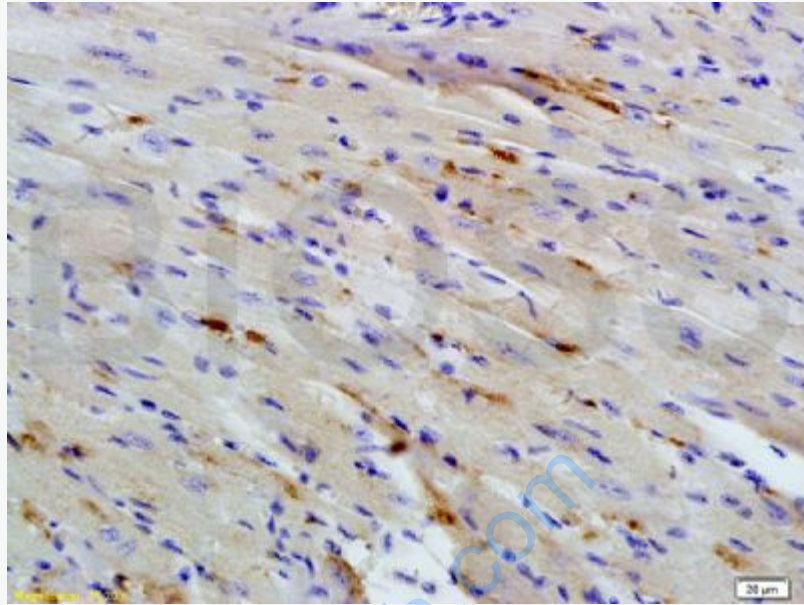
Hcclm3 (human)cell Lysate at 40 ug

Primary: Anti- BTG2 (SL0031R)at 1/300 dilution

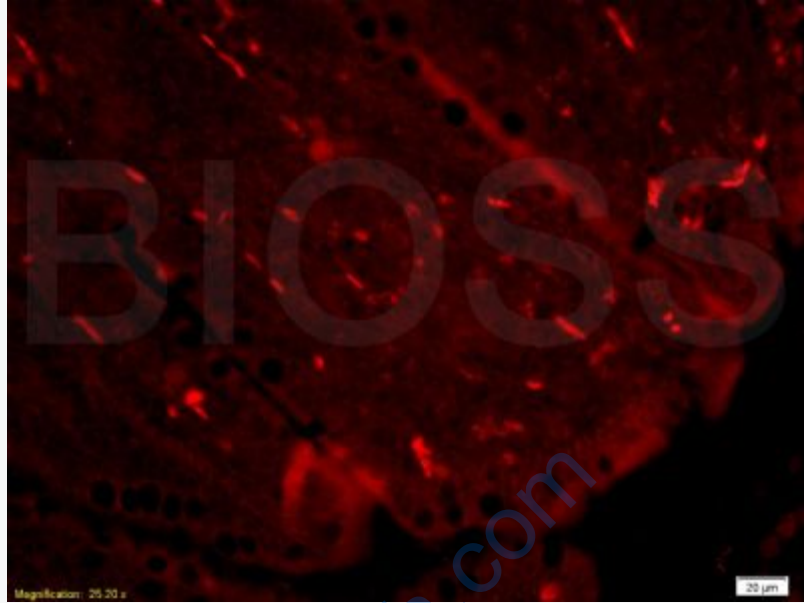
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17kD

Observed band size: 17 kD



Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-BTG2 Polyclonal Antibody, Unconjugated(SL0031R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: mouse small intestine tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-BTG2 Polyclonal Antibody, Unconjugated(SL0031R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0031R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei