

BPTF bromodomain (2796-2907 aa) (GST-tagged), Human recombinant protein
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Catalog # PBV11238r

Specification

BPTF bromodomain (2796-2907 aa) (GST-tagged), Human recombinant protein - Product info

Primary Accession [Q12830](#)
Calculated MW **40.1 kDa (2796-2907 aa + NT GST Tag) KDa**

BPTF bromodomain (2796-2907 aa) (GST-tagged), Human recombinant protein - Additional Info

Gene ID	2186
Gene Symbol	BPTF
Other Names	
Bromodomain PHD Finger Transcription Factor	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥80%
Assay2&Purity2	HPLC;
Recombinant	Yes
Target/Specificity	
BPTF	

Format

Liquid

Storage

-80°C; 50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5 mM β-mercaptoethanol and 5% glycerol.

BPTF bromodomain (2796-2907 aa) (GST-tagged), Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BPTF bromodomain (2796-2907 aa) (GST-tagged), Human recombinant protein - Images

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Background

The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. A bromodomain is a protein domain that recognizes acetylated lysine residues such as those on the N-terminal tails of histones. This recognition is often a prerequisite for protein-histone association and chromatin remodeling. These domains function in the linking of protein complexes to acetylated nucleosomes, thereby controlling chromatin structure and gene expression. Thus, bromodomains serve as “readers” of histone acetylation marks regulating the transcription of target promoters. BPTF is the largest component of the NURF chromatin remodeling complex. It includes adjacent PHD and bromodomains which recognize trimethylation of H3K4 or acetylation of lysines in histone 4, respectively. BPTF is an essential regulator of gene expression in early mouse embryos, and its knock-out is embryonic lethal. Duplication of the BPTF gene has been suggested to increase proliferation of cultured cancer cells, and aberrant BPTF copy numbers were found in 42% of the “NCI-60” panel of 60 human cancer cell lines. This protein product contains the bromodomain of BPTF.

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