

Recombinant Human BRD7, GST-tagged

Cat. No. BRD7-12H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human BRD7 (a.a.129-252) fused with GST tag at N-terminal was expressed in E. coli.

Species Human

Source E.coli

ProteinLength 129-252 a.a.

Description

The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. Acetylated lysine residues are recognized by a small protein domain known as a bromodomain. These domains function in linking 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. BRD7 is a subunit of the polybromo-associated BRG1-associated factor (PBAF)-specific component of the switch/sucrose non-fermentable chromatin-remodeling complex. It has a tumor suppressor role by acting as a cofactor for p53 and regulating breast cancer tumorigenicity. Cells lacking BRD7 have reduced breast cancer type 1-dependent estrogen receptor α expression. Down-regulation of BRD7 has been demonstrated in nasopharyngeal carcinoma cell lines and in colorectal cancer. BRD7 is also involved in transcriptional gene silencing through binding to protein arginine methyltransferase 5 and polycomb repressive complex 2. This protein product contains the bromodomain region of BRD7.

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Form	50 mM Tris, pH 8.0, containing 150 mM sodium chloride and 20% glycerol
Molecular Mass	42.2 kDa
Purity	≥40%
Storage	Store at -80 centigrade

GENE INFORMATION

Gene Name	BRD7 bromodomain containing 7 [Homo sapiens]
Official Symbol	BRD7
Synonyms	BP75; NAG4; CELTIX1; bromodomain-containing protein 7; 75 kDa bromodomain protein; protein CELTIX-1
Gene ID	29117
mRNA Refseq	NM_001173984
Protein Refseq	NP_001167455
UniProt ID	Q9NPI1
Chromosome Location	16q12
Pathway	Wnt Signaling Pathway NetPath, organism-specific biosystem
Function	histone binding; lysine-acetylated histone binding; p53 binding

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