

Product datasheet for **TP727638**

BRD4 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human BRD4 (N-10His-Flag)
Species:	Human
Expression cDNA Clone or AA Sequence:	Glu49-Glu460
Tag:	N-10His-Flag
Buffer:	Supplied as a 0.2 um filtered solution of 50mM HEPES,200mM NaCl,10%(v/v)Glycerol,1mM DTT, pH 7.5.
Note:	Recombinant Human Bromodomain-containing protein 4 is produced by our E.coli expression system and the target gene encoding Glu49-Glu460 is expressed with a 10His, Flag tag at the N-terminus.
Stability:	12 months from date of despatch
Locus ID:	23476
UniProt ID:	O60885
Summary:	Bromodomain-containing protein 4 (BRD4) is a member of the BET class chromatin reader proteins that bind acetylated histones and play a key role in transcriptional regulation and transmission of epigenetic memory. Remains associated with acetylated chromatin throughout the entire cell cycle and provides epigenetic memory for postmitotic G1 gene transcription by preserving acetylated chromatin status and maintaining high-order chromatin structure. BRD bromodomains serve as recognition motifs for acetylated lysine residues on histones, while the NET domain may function by promoting phosphorylation of the C-terminal domain (CTD) of RNA Polymerase II. Some specific inhibitors of BRD4 that prevent binding to acetylated histones by binding Asn-140 and Asn-433 are promising therapeutic molecules for the treatment of leukemias. BRD4 is a potential therapeutic target in many diseases including breast cancer, AML, multiple myeloma, colon cancer and others.



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