

BRD2 bromodomain (1-455 aa) (His-Tag), human recombinant protein
RING3, RNF3, Bromodomain containing 4, D6S113E, FSH, FSRG1, NAT, RING3, RNF3
Catalog # PBV11028r

Specification

BRD2 bromodomain (1-455 aa) (His-Tag), human recombinant protein - Product info

Primary Accession	P25440
Concentration	1
Calculated MW	52.8 kDa (478 aa, 1-455 aa + His Tag), confirmed by MALDI-TOF. kDa

BRD2 bromodomain (1-455 aa) (His-Tag), human recombinant protein - Additional Info

Gene ID	6046
Gene Symbol	BRD2
Other Names	
RING3, RNF3, Bromodomain containing 4, D6S113E, FSH, FSRG1, NAT, RING3, RNF3	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMLQNVTP HNKLPGEGNA GLLGLGPEAA APGKRIRKPS LLYEGFESPT MASVPALQLT PANPPPPEVS NPKKPGRVTN QLQYLHKVVM KALWKHQFAW PFRQPVDVAVK LGLPDYHKII KQPMMDMTIK RRLENNYYWA ASECMQDFNT MFTNCYIYNK PTDDIVLMAQ TLEKIFLQKV ASMPQEEQEL VVTIPKNSHK KGAKLAALQG SVTSAHQVPA VSSVSHTALY TPPPEIPTTV LNIPHPVIS SPLLKSLHSA GPPLAVTAA PPAQPLAKKK GVKRKADTTT PTPTAILAPG SPASPPGSLE PKAARLPPMR RESGRPIKPP RKDLPDSQQQ HQSSKKGKLS EQLKHCNGIL KELLSSKHAA YAWPFYKPVD ASALGLHDYH DIKHPMDLS TVKRKMENRD YRDAQEFAAD VRLMFSNCYK YNPPDHDVVA MARKLQDVFE FRYAKMPD

Target/Specificity
BRD2

Format
Liquid

Storage
-80°C; 1 mg/ml in Phosphate buffer saline (pH 7.4) containing 10% glycerol and 1 mM DTT.

BRD2 bromodomain (1-455 aa) (His-Tag), 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](#)

BRD2 bromodomain (1-455 aa) (His-Tag), human recombinant protein - Images**BRD2 bromodomain (1-455 aa) (His-Tag), human recombinant protein - 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. The BET family of proteins, defined by tandem Bromodomains and an Extra Terminal domain, include BRD2, BRD3, BRD4, and BRDT. The BET proteins play a key role in many cellular processes, including inflammatory gene expression, mitosis, and viral/host interactions. The isolated individual or tandem bromodomains of BRD2 and BRD4 have been shown to bind acetylated histone tails, serving to couple histone acetylation marks to the transcriptional regulation of target promoters. Small molecule inhibitors of these interactions hold promise as useful therapeutics for human disease. This protein can be used for the study of bromodomain binding assays, screening inhibitors, and selectivity profiling.

BRD2 bromodomain (1-455 aa) (His-Tag), human recombinant protein - References

Beck S., et al. DNA Seq. 2:203-210(1992).
Thorpe K.L., et al. Immunogenetics 44:391-396(1996).
Nomura N., et al. Submitted (JUL-1997) to the EMBL/GenBank/DDBJ databases.
Bechtel S., et al. BMC Genomics 8:399-399(2007).
Mungall A.J., et al. Nature 425:805-811(2003).