

## Active Recombinant Human PBRM1, His&FLAG-tagged

Cat. No. PBRM1-59H    Lot. No. (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human PBRM1 corresponding to amino acids 613 - 734 that contains the bromodomain sequences of PBRM1 (accession number NP\_060635.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 20.513 kDa.

**Species**                      Human

**Source**                        E.coli

**ProteinLength**              613-734 a.a.

**Description**                Polybromo 1 (PBRM1) protein, also known as BRG1-associated factor 180 (BAF180) is the chromatin targeting subunit of the SWI/SNF-B (PBAF) chromatin remodeling complex that is involved in transcriptional activation and repression of select genes. PBRM1 targets chromatin via its six bromodomains that recognize and bind acetylated histone lysine residues. Bromodomains function as "readers" of these epigenetic histone marks and regulate chromatin structure and gene expression by linking associated proteins to the acetylated nucleosomal targets. PBRM1 also acts as an inhibitor of cell proliferation and demonstrates tumor suppressing properties in relation to breast, liver and lung cancers.

**Form**                            25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol.

**Bio-activity**                 It shows binding specificity for acetylated H3K14.

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**Storage** Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

**Concentration** 2.98 mg/ml

## GENE INFORMATION

**Gene Name** PBRM1 polybromo 1 [ Homo sapiens ]

**Official Symbol** PBRM1

**Synonyms** PBRM1; polybromo 1; protein polybromo-1; BAF180; PB1; polybromo-1D; BRG1-associated factor 180; MGC156155; MGC156156;

**Gene ID** 55193

**mRNA Refseq** NM\_018313

**Protein Refseq** NP\_060783

**MIM** 606083

**UniProt ID** Q86U86

**Chromosome Location** 3p21

**Function** DNA binding; chromatin binding; protein binding;

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