

PB1 monoclonal antibody

Catalog: MB67143

Host: Mouse

Reactivity: Human

BackGround:

ATP-dependent chromatin remodeling complexes play an essential role in the regulation of various nuclear processes, such as gene expression, DNA replication, and repair. The SWI/SNF chromatin remodeling complex consists of more than 10 subunits with a single molecule of the ATPase catalytic subunit BRM or BRG1, but not both. The activities of these two subunits drive the disruption of histone-DNA contacts that lead to changes in accessibility of crucial regulatory elements within chromatin. The BRM/BRG1 containing SWI/SNF complexes are recruited to target promoters by transcription factors, such as nuclear receptors, p53, RB, and BRCA1 to regulate gene activation, cell growth, the cell cycle, and differentiation processes.

PBRM1/BAF180 is a unique member of the SWI/SNF complex PBAF, which binds to kinetochores in mitotic chromatin. PBAF is involved in nuclear receptor-mediated transcription and retinoic acid driven gene activation. PBRM1/BAF180 has been shown to be a potent tumor suppressor, as it is the second-most mutated gene in renal carcinomas. Mutations of PBRM1/BAF180 have also been shown to be involved in breast cancer, and low expression relates to poorer prognosis. PBRM1/BAF180 is phosphorylated at Ser948 by ATM during DNA damage, which is important for transcriptional silencing and repair around double-stranded breaks.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 205 kDa

Swiss-Prot:

Q86U86

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of PB1 protein.

DATA:



Western blot analysis of PB1 expression in HT1080 (A) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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